

CALIFORNIA HIGH-SPEED TRAIN

Project Environmental Impact Report/Environmental Impact Statement

FINAL

Merced to Fresno Section
Project EIR/EIS

Volume III:

Section C1 – Alignment Plans

BNSF Alternative with Ave 24 Wye

April 2012



CALIFORNIA
High-Speed Rail Authority



U.S. Department of Transportation
Federal Railroad Administration






1/11/2012 2:44:46 PM \\usscrifp001\Cadd\ChsR\60022962\Task-03_Merced-Fresno\CADD\Rail\Design\SHIELD5A\Rev 1 - 15% Plans\BNSF AVE 24\MF-T-0010.dgn shiel5da

SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITLE LINE 6
	T0010-A	BNSF ALIGNMENT	AVENUE 24	INDEX OF DRAWINGS	SHEET 1 OF 1
	T0100-A	GENERAL		ABBREVIATIONS, SYMBOLS AND NOTES	
	T0101-A	BNSF ALIGNMENT	AVENUE 24	KEY MAP	SHEET 1 OF 3
	T0102-A	BNSF ALIGNMENT	AVENUE 24	KEY MAP	SHEET 2 OF 3
	T0103-A	BNSF ALIGNMENT	AVENUE 24	KEY MAP	SHEET 3 OF 3
	T0150-A	BNSF ALIGNMENT	AVENUE 24	TRACK GEOMETRY DATA	SHEET 1 OF 1
	T3000-A	GENERAL		TYPICAL SECTION LIMITS	
	T3001-A			TYPICAL SECTIONS	SHEET 1 OF 17
	T3002-A			TYPICAL SECTIONS	SHEET 2 OF 17
	T3003-A			TYPICAL SECTIONS	SHEET 3 OF 17
	T3004-A			TYPICAL SECTIONS	SHEET 4 OF 17
	T3005-A			TYPICAL SECTIONS	SHEET 5 OF 17
	T3006-A			TYPICAL SECTIONS	SHEET 6 OF 17
	T3007-A			TYPICAL SECTIONS	SHEET 7 OF 17
	T3008-A			TYPICAL SECTIONS	SHEET 8 OF 17
	T3009-A			TYPICAL SECTIONS	SHEET 9 OF 17
	T3010-A			TYPICAL SECTIONS	SHEET 10 OF 17
	T3011-A			TYPICAL SECTIONS	SHEET 11 OF 17
	T3012-A			TYPICAL SECTIONS	SHEET 12 OF 17
	T3013-A			TYPICAL SECTIONS	SHEET 13 OF 17
	T3014-A			TYPICAL SECTIONS	SHEET 14 OF 17
	T3015-A			TYPICAL SECTIONS	SHEET 15 OF 17
	T3016-A			TYPICAL SECTIONS	SHEET 16 OF 17
	T3017-A			TYPICAL SECTIONS	SHEET 17 OF 17
	T1300-A	BNSF MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 892+89.69 TO STA 930+00
	T1301-A	BNSF MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 930+00 TO STA 985+00
	T1302-A	BNSF MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 985+00 TO STA 1040+00
	T1303-A	BNSF MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1040+00 TO STA 1095+00
	T1304-A	BNSF MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1095+00 TO STA 1150+00
	T1305-A	BNSF MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1150+00 TO STA 1205+00
	T1306-A	BNSF MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1205+00 TO STA 1260+00
	T1307-A	BNSF MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1260+00 TO STA 1315+00
	T1308-A	BNSF MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1315+00 TO STA 1370+00
	T1309-A	BNSF MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1370+00 TO STA 1425+00
	T1310-A	BNSF MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1425+00 TO STA 1480+00
	T1311-A	BNSF MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1480+00 TO STA 1535+00
	T1312-A	BNSF MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1535+00 TO STA 1590+00
	T1313-A	BNSF MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1590+00 TO STA 1645+00
	T1314-A	BNSF MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1645+00 TO STA 1700+00
	T1315-A	BNSF MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1700+00 TO STA 1755+00
	T1316-A	BNSF MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1755+00 TO STA 1810+00
	T1317-A	BNSF MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1810+00 TO STA 1865+00
	T1318-A	BNSF MAIN LINE	AVENUE 24	PLAN AND PROFILE	STA 1865+00 TO STA 1890+17.44
	T1111-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 890+17.44 TO STA 920+00
	T1112-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 920+00 TO STA 975+00
	T1113-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 975+00 TO STA 1030+00
	T1114-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 1030+00 TO STA 1085+00
	T1115-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 1085+00 TO STA 1140+00
	T1116-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 1140+00 TO STA 1195+00
	T1117-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 1195+00 TO STA 1250+00
	T1118-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 1250+00 TO STA 1305+00
	T1119-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 1305+00 TO STA 1360+00
	T1120-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 1360+00 TO STA 1415+00
	T1121-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 1415+00 TO STA 1470+00
	T1122-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 1470+00 TO STA 1525+00
	T1123-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 1525+00 TO STA 1580+00
	T1124-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 1580+00 TO STA 1635+00
	T1125-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 1635+00 TO STA 1690+00
	T1126-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 1690+00 TO STA 1745+55.75
	T1127-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 1713+98 TO STA 1748+00
	T1128-A	BNSF MAIN LINE		PLAN AND PROFILE	STA 1748+00 TO STA 1801+61.52
	T1200-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 4302+03.01 TO STA 4345+00
	T1201-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 4345+00 TO STA 4400+00
	T1202-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 4400+00 TO STA 4455+00
	T1203-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 4455+00 TO STA 4510+00
	T1204-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 4510+00 TO STA 4565+00

SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITLE LINE 6
	T1205-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 4565+00 TO STA 4620+00
	T1206-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 4620+00 TO STA 4675+00
	T1207-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 4675+00 TO STA 4730+00
	T1208-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 4730+00 TO STA 4785+00
	T1209-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 4785+00 TO STA 4840+00
	T1210-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 4840+00 TO STA 4895+00
	T1211-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 4895+00 TO STA 4950+00
	T1212-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 4950+00 TO STA 5005+00
	T1213-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5005+00 TO STA 5060+00
	T1214-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5060+00 TO STA 5115+00
	T1215-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5115+00 TO STA 5170+00
	T1216-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5170+00 TO STA 5225+00
	T1217-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5225+00 TO STA 5280+00
	T1218-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5280+00 TO STA 5335+00
	T1219-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5335+00 TO STA 5390+00
	T1220-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5390+00 TO STA 5445+00
	T1221-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5445+00 TO STA 5500+00
	T1222-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5500+00 TO STA 5555+00
	T1223-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5555+00 TO STA 5610+00
	T1224-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5610+00 TO STA 5665+00
	T1225-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5665+00 TO STA 5720+00
	T1226-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5720+00 TO STA 5775+00
	T1227-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5775+00 TO STA 5830+00
	T1228-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5830+00 TO STA 5885+00
	T1229-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5885+00 TO STA 5940+00
	T1230-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5940+00 TO STA 5995+00
	T1231-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 5995+00 TO STA 6050+00
	T1232-A	BNSF MERCED CONNECTION	AVE 21 / AVE 24	PLAN AND PROFILE	STA 6050+00 TO STA 6066+12.20
	T1350-A	BNSF WYE - NB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 104+65.02 TO STA 130+00
	T1351-A	BNSF WYE - NB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 130+00 TO STA 185+00
	T1352-A	BNSF WYE - NB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 185+00 TO STA 240+00
	T1353-A	BNSF WYE - NB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 240+00 TO STA 295+00
	T1354-A	BNSF WYE - NB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 295+00 TO STA 350+00
	T1355-A	BNSF WYE - NB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 350+00 TO STA 405+00
	T1356-A	BNSF WYE - NB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 405+00 TO STA 460+00
	T1357-A	BNSF WYE - NB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 460+00 TO STA 515+00
	T1358-A	BNSF WYE - NB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 515+00 TO STA 566+78.51
	T1370-A	BNSF WYE - SB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 500+00 TO STA 525+00
	T1371-A	BNSF WYE - SB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 525+00 TO STA 580+00
	T1372-A	BNSF WYE - SB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 580+00 TO STA 635+00
	T1373-A	BNSF WYE - SB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 635+00 TO STA 690+00
	T1374-A	BNSF WYE - SB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 690+00 TO STA 745+00
	T1375-A	BNSF WYE - SB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 745+00 TO STA 800+00
	T1376-A	BNSF WYE - SB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 800+00 TO STA 855+00
	T1377-A	BNSF WYE - SB CONNECTION	AVENUE 24	PLAN AND PROFILE	STA 855+00 TO STA 896+06.40

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

						DESIGNED BY A. SHIELDS	RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION	<div> Technical Services, Inc. 2020 L Street, Suite 300 Sacramento, CA 95811</div> <div></div>	<div> CALIFORNIA HIGH-SPEED RAIL AUTHORITY</div>	CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO			CONTRACT NO. HSR06-007
					DRAWN BY T. WALTZ	DRAWING NO. T0010-A							
					CHECKED BY A. BOONE	SCALE NONE							
					IN CHARGE A. BOONE	SHEET NO. ### OF ###							
					DATE 07/27/2011								
REV	DATE	BY	CHK	APP	DESCRIPTION				BNSF ALIGNMENT AVENUE 24 INDEX OF DRAWINGS SHEET 1 OF 1				

I:\CHSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Design\SHIELDSA\Rev 1 - 15% Plans\UPRR AVE 21\WF-T-0100.dgn 4/3/2012 9:23:31 AM GibsonR1

ABBREVIATIONS

ALIGNMENT

HORIZONTAL	
BC	BEGINNING OF CURVE
CS	CURVE TO SPIRAL
EC	END OF CURVE
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CIRCULAR CURVES
PCS	POINT OF CURVE TO SPIRAL
PF	POINT OF FROG
PI	POINT OF INTERSECTION OF TWO TANGENTS
PITO	POINT OF INTERSECTION OF TURNOUT
POC	POINT ON CURVE
POS	POINT ON SPIRAL
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVES
PS	POINT OF SWITCH
PSC	POINT OF SPIRAL TO CURVE
PT	POINT OF TANGENCY
R	RADIUS OF CURVATURE IN FEET
SC	SPIRAL TO CURVE
SPO	POINT OF ORIGIN OF COMPOUND SPIRAL
SS	POINT OF SPIRAL TO SPIRAL
ST	SPIRAL TO TANGENT
TS	TANGENT TO SPIRAL
V	DESIGN VELOCITY IN MILES PER HOUR
VERTICAL	
PVC	POINT OF VERTICAL CURVE (BEGINNING OF CURVE)
PVI	POINT OF VERTICAL INTERSECTION (OF TANGENTS)
PVT	POINT OF VERTICAL TANGENCY (ENDING OF CURVE)
VC	VERTICAL CURVE

MISCELLANEOUS

BEG	BEGIN
BLVD	BOULEVARD
CL	CENTER LINE
CL	CENTERLINE, CLASS
CLR	CLEAR
COL	COLUMN
DWG	DRAWING
EQ	EQUATION
EXIST(E)	EXISTING
IN	INCH
LT	LEFT
MAX	MAXIMUM
MIN	MINIMUM
N	NORTH
NB	NORTH BOUND
NTS	NOT TO SCALE
OG	ORIGINAL GROUND
O/H OH	OVER HEAD
PG&E	PACIFIC GAS & ELECTRIC
PGL	PROFILE GRADE LINE
RR	RAILROAD
RD	ROAD
R/W ROW	RIGHT OF WAY
RT	RIGHT
SS	SANITARY SEWER
SHT	SHEET
ST	STREET
STD	STANDARD
SD	STORM DRAIN
STRUCT	STRUCTURE
T	TELEPHONE
	(OH) OVERHEAD LINE
	(UG) UNDERGROUND LINE
TOR	TOP OF RAIL
TK	TRACK
TO	TURNOUT
TYP	TYPICAL
TBD	TO BE DETERMINED
TF	TELECOMMUNICATIONS FIBER
	OPTIC
V VERT	VERTICAL
W	WATER, WEST

SYMBOLS

	MATCH LINE
	HST TRACK
	PROPOSED HST RIGHT-OF-WAY
	FREIGHT/PASSENGER TRACK - EXISTING
	EXISTING RIGHT-OF-WAY
	EXISTING BRIDGE FEATURES
	RETAINING WALLS
	ORIGINAL GROUND
	GAS LINE (16")
	COMMUNICATION LINE
	WATER LINE
	FIBER OPTIC LINE
	ELECTRICAL LINE
	ELECTRICAL TOWER
	SEWER LINE
	STORM DRAIN LINE
	FUEL LINE
	TELEPHONE LINE
	PETROLEUM LINE (12")
	OVERHEAD
	NORTH ARRROW
	PVI
	POTENTIAL SOUND BARRIER

NOTES:

- EXISTING ROADS TO BE GRADE SEPARATED OVER THE HIGH SPEED TRAIN (HST) RIGHT OF WAY ARE INDICATED IN THE ALIGNMENT PROFILE. ALL OTHER ROADS CROSSING THE PROPOSED HST TRACKS WILL BE CLOSED OR RELOCATED. SEE ROADWAY PLANS FOR ADDITIONAL INFORMATION.
- SEE STRUCTURE PLANS FOR LIMITS AND DETAILS OF VIADUCTS, STREAM CROSSINGS, RETAINING WALLS AND OTHER HST STRUCTURES.
- SEE ROADWAY PLANS FOR ROADWAY RELOCATIONS, GRADE SEPARATIONS, AND MODIFICATIONS TO STATE HIGHWAY FACILITIES.
- UTILITIES INDICATED ON THE PLANS ARE FOR REFERENCE ONLY. SEE "UTILITIES CONFLICT MEMO" FOR ADDITIONAL INFORMATION AND PROPOSED RELOCATION CONCEPTS.
- ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPORVEMENTS.
- STANDALONE RADIO SITES WILL BE PROVIDED IN BETWEEN TRACTION POWER FACILITIES (SUBSTATIONS, SWITCHING STATIONS, AND PARALLELING STATIONS). SPACING OF THESE SITES WILL VARY BETWEEN 1-1/2 AND 3 MILES. ACCESS TO THESE SITES WILL BE PROVIDED AT THE NEAREST PUBLIC ROAD THAT CROSSES THE HIGH SPEED TRAIN ALIGNMENT.

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY B. CHAN
DRAWN BY S. LEONG
CHECKED BY A. BOWE
IN CHARGE J. VALSECCHI
DATE 07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GENERAL

ABBREVIATIONS, SYMBOLS AND NOTES

CONTRACT NO. HSR06-007
DRAWING NO. T0100-A
SCALE NO SCALE
SHEET NO. ### OF ###

1/11/2012 2:35:33 PM \\usscrlfp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Design\SHIELDS\Rev 1 - 15% Plans\BNSF AVE 24\MF-T-0101-A.dgn shieldsa



"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF ALIGNMENT
AVENUE 24
KEY MAP
SHEET 1 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
T0101-A
SCALE
NO SCALE
SHEET NO.
OF

1/11/2012 2:38:29 PM \\usscrifp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Design\SHIELDS\Rev 1 - 15% Plans\BNSF AVE 24\MF-T-0102-A.dgn shieldsa



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF ALIGNMENT
AVENUE 24
KEY MAP
SHEET 2 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
T0102-A
SCALE
NO SCALE
SHEET NO.
OF

1/11/2012 2:41:19 PM \\usscrifp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Design\SHIELDS\Rev 1 - 15% Plans\BNSF AVE 24\MF-T-0103-A.dgn shieldsa



"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY F. DeMARCO
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF ALIGNMENT
AVENUE 24
KEY MAP
SHEET 3 OF 3

CONTRACT NO. HSR06-007
DRAWING NO. T0103-A
SCALE NO SCALE
SHEET NO. ### OF ###

7/22/2011 11:08:19 AM I:\CHSR\60022962\Task-02_Merced-Fresno\CADD\Civil\Sheet\TRACKWORK\DEIR\BNSF_AVE_24\MF-T-0150A.dgn

lulivann

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE-BNSF MAIN LINE AVE 24 SB

CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
BNSF225	250	40500	4.00	2.17	1300	1389+35.83	1723+31.35	T1309-A

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE-BNSF MAIN LINE SB

CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
BNSF202	250	28000	6.00	2.93	2000	1106+38.05	1169+50.77	T1115-A
BNSF203	250	28000.0	6.00	2.93	2000	1288+03.95	1432+77.00	T1118-A
BNSF204	250	28016.5	6.00	2.93	2000	1452+42.23	1566+35.87	T1121-A
BNSF205	250	28016.5	6.00	2.93	2000	1599+58.86	1734+68.17	T1124-A
BNSF206	250	42995.5	3.25	2.56	1199.87	1708+55.57	1748+44.15	T1127-A
BNSF207	250	43000	3.25	2.56	1200	1852+76.45	1927+63.38	T1130-A

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE-BNSF MERCED CONNECTION SB

CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
BNSF109	150	32000			220	4302+03.01	4313+91.12	T1200-A
BNSF110	150	24000	1.25	2.50	220	4313+91.12	4323+70.19	T1200-A
BNSF111	250	28000	6.00	2.93	2000	4363+79.98	4453+67.52	T1202-A
BNSF112	250	43016.5	3.00	2.81	1100	4856+00.90	4897+66.79	T1210-A
BNSF113	250	28000	6.00	2.93	2000	4996+88.68	5109+38.05	T1212-A
BNSF114	250	28000	6.00	2.93	2000	5308+84.67	5547+08.45	T1218-A
BNSF115	250	28016.5	6.00	2.93	2000	5701+78.02	5942+55.78	T1225-A
BNSF116	150	10000	6.00	2.64	1000	5982+81.29	6029+03.10	T1230-A

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - BNSF WYE - SB CONNECTION AVE 24

CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
BNSF128	150	32000			220	500+00.00	510+31.98	T1370-A
BNSF129	150	24024.54	1.25	2.50	220	510+31.98	518+63.11	T1370-A
BNSF130	145	9800	6.00	2.58	1200	648+85.18	857+24.00	T1373-A
BNSF131	150	32000			220	886+55.05	896+06.40	T1377-A

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE-BNSF MAIN LINE AVE 24 NB

CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
BNSF101	250	28016.50	6.00	2.93	2000	646+46.22	890+30.92	T-1107-A

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE-BNSF MAIN LINE NB

CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
BNSF102	250	28016.5	6.00	2.93	2000	1106+50.94	1169+66.78	T1115-A
BNSF103	250	28016.5	6.00	2.93	2000	1288+19.38	1433+00.37	T1118-A
BNSF104	250	28000	6.00	2.93	2000	1452+65.60	1566+53.12	T1121-A
BNSF105	250	28000	6.00	2.93	2000	1593+78.25	1734+18.05	T1121-A
BNSF106	250	43012	3.25	2.56	1200	1708+55.57	1748+44.15	T1127-A
BNSF107	250	43016.5	3.25	2.56	1200	1852+76.45	1927+63.38	T1130-A

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE-BNSF MERCED CONNECTION NB

CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
BNSF109	150	32000			220	4302+03.01	4313+11.12	T1200-A
BNSF110	150	23992.86	1.25	2.50	220	4313+11.12	4323+70.19	T1200-A
BNSF211	250	28000	6.00	2.93	2000	3366+51.75	3456+39.30	T1202-A
BNSF212	250	43000	3.00	2.81	1100	3855+88.42	3897+53.13	T1210-A
BNSF213	250	28016.5	6.00	2.93	2000	3996+75.02	4109+29.85	T1212-A
BNSF214	250	28016.5	6.00	2.93	2000	4308+76.46	4547+13.11	T1218-A
BNSF215	250	28000	6.00	2.93	2000	4701+82.68	4942+47.44	T1225-A
BNSF216	150	10000	6.00	2.64	1000	4971+57.33	5039+96.02	T1225-A

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - BNSF WYE - NB CONNECTION AVE 24

CURVE	DESIGN SPEED (V) (MPH)	RADIUS (R) (FT)	ACTUAL SUPERELEVATION (Ea) (IN)	UNBALANCED SUPERELEVATION (Eu) (IN)	SPIRAL LENGTH (Ls) (FT)	BEGIN STATION	END STATION	BEGIN DRAWING
BNSF228	150	32000			220	104+65.02	116+52.45	T1350-A
BNSF229	150	24020.25	1.25	2.50	220	116+52.45	126+31.88	T1350-A
BNSF230	150	10000	6.00	3.00	1200	252+29.89	467+11.71	T1353-A
BNSF231	150	24020.25	1.25	2.50	220	545+10.84	554+90.50	T1358-A
BNSF232	150	32000			220	554+90.50	566+78.51	T1358-A

REV	DATE	BY	CHK	APP		DESCRIPTION			

DESIGNED BY
DRAWN BY
CHECKED BY
IN CHARGE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF ALIGNMENT
AVENUE 24
TRACK GEOMETRY DATA
SHEET 1 OF 1

CONTRACT NO.	HSR06-007
DRAWING NO.	T0150-A
SCALE	NO SCALE
SHEET NO.	### OF ###

7/20/2011 3:31:25 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\typical_sections\WF-T-3000-A.dgn

ShieldsA

ALTERNATIVE HYBRID AVENUE 24			
ALIGNMENT	BEGIN STATION	END STATION	SECTION
HYBRID 24	892+90	926+80	AG2
	926+80	1020+00	WYE1
	1020+00	1185+00	AG2
	1185+00	1230+00	WYE1
	1230+00	1360+00	AG2
	1360+00	1375+00	RF2
	1375+00	1435+00	EL1
	1435+00	1443+00	RF2
	1443+00	2681+00	AG2
	2681+00	2695+00	RF2
	2695+00	2731+50	EL1
	2731+50	2740+55	EL5
HYBRID-FR	1713+98	1737+00	EL6
	1737+00	1764+78	EL7
	1764+78	1767+00	EL8
	1767+00	1788+84	RF3
	1788+84	1843+35	AG6
UPRR/SR 99 WCD0/HYBRID MC SB	5061+66	5015+00	WYE1
	5015+00	5235+00	AG4
	5235+00	5285+00	WYE 1
	5288+00	5556+91	AG2
UPRR/SR 99 WCD0/HYBRID MC NB			
	5058+80	5110+00	WYE1
	5110+00	5121+00	EL2
	5121+00	5127+00	RF2
	5127+00	5235+00	AG4
	5235+00	5285+00	WYE1
UPRR/SR 99-21MC	5285+00	5597+00	AG2
	5556+98	5910+00	AG1
	5910+00	5916+50	TR2
	5916+50	5917+60	CC1
	5917+60	5925+00	TR2
	5925+00	5977+70	AG1
	5977+70	5989+20	TR2
	5989+20	5990+20	CC1
	5990+20	6003+00	TR2
	6003+00	6022+00	AG1
	6022+00	6040+60	TR2
	6040+60	6042+90	CC1
	6042+90	6052+50	TR1
UPRR/SR 99 WCD0/HYBRID WC NB	6052+50	6066+20	AG5
	148+82	205+00	WYE1
	205+00	211+00	EL2
	211+00	219+00	RF2
	219+00	313+50	AG4
	313+50	320+00	RF2
UPRR/SR 99 WCD0/HYBRID WC SB	320+00	330+00	EL2
	330+00	382+25	WYE1
	524+67	570+00	WYE1
	570+00	695+00	AG4
	695+00	738+88	WYE1

ALTERNATIVE HYBRID AVENUE 21			
ALIGNMENT	BEGIN STATION	END STATION	SECTION
HYBRID 21	892+90	330+00	AG2
	330+00	430+00	WYE1
	430+00	565+00	AG2
	565+00	580+00	RF2
	580+00	630+00	EL1
	630+00	640+00	RF2
	640+00	680+00	WYE1
	680+00	868+87=	AG2
	1865+00	2681+00	AG2
	2681+00	2695+00	RF2
	2695+00	2731+50	EL1
	2731+50	2740+55	EL5
HYBRID-FR	1713+98	1737+00	EL6
	1737+00	1764+78	EL7
	1764+78	1767+00	EL8
	1767+00	1788+84	RF3
	1788+84	1843+35	AG6
HYBRID MC SB - 21	1843+35	1893+95	RF3
	1893+95	1958+00	AG6
	1958+00	2072+36	AG7
	200+20	250+00	WYE1
HYBRID MC NB - 21	250+00	290+00	EL2
	290+00	377+99	EL1
	500+00	550+00	WYE1
UPRR/SR 99-21MC	550+00	590+00	EL2
	590+00	677+40	EL1
	4907+27	4975+00	EL1
	4975+00	5045+00	WYE2
	5045+00	5385+00	EL1
UPRR/SR 99-21WC NB	5385+00	5425+00	RF2
	5425+00	5910+00	AG1
	5910+00	5915+50	TR2
	5915+50	5916+60	CC1
	5916+60	5924+00	TR2
	5924+00	5977+70	AG1
	5977+70	5989+30	TR2
	5989+30	5990+40	CC1
	5990+40	6003+00	TR2
	6003+00	6022+00	AG1
	6022+00	6040+60	TR2
	6040+60	6042+90	CC1
	6042+90	6052+50	TR1
	6052+50	6066+20	AG5
UPRR/SR 99-21WC SB	505+00	610+00	WYE1
	610+00	619+50	EL2
	619+50	628+35	RF1
	628+35	714+80	AG4
	714+80	724+20	RF1
	724+20	780+00	EL2
UPRR/SR 99-21WC SB	780+00	846+94	WYE2
	105+00	180+00	WYE1
	180+00	298+80	AG4
	298+80	313+21	RF1
	313+21	340+00	EL2
	340+00	397+52	WYE2

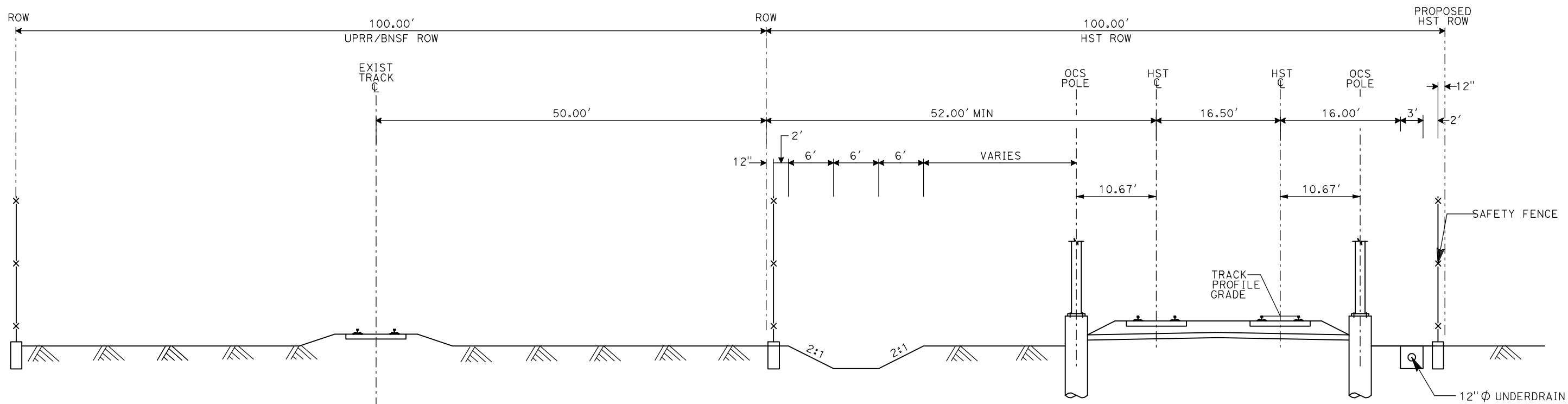
ALTERNATIVE BNSF AVENUE 21			
ALIGNMENT	BEGIN STATION	END STATION	SECTION
BNSF-21ML	267+41	562+00	AG2
	562+00	582+61	RF2
	582+61	634+76	EL1
	634+76	665+80	RF2
	665+80	859+40	AG2
	859+40	881+05	RF2
	881+05	925+00	EL1
	925+00	985+00	WYE1
	985+00	1042+75	EL1
	1042+75	1060+00	RF2
	1060+00	1305+00	AG1
	1305+00	1685+00	AG2
	1685+00	1696+00	RF2
	1667+59	1731+50	EL1
BNSF-FR	1731+50	1741+00	EL5
	1713+98	1737+00	EL6
	1737+00	1764+78	EL7
	1764+78	1767+00	EL8
BNSF-21WC NB	1767+00	1788+84	RF3
	1788+84	1843+35	AG6
	1843+35	1893+95	RF3
	1893+95	1958+00	AG6
	1958+00	2072+36	AG7
BNSF-21WC SB	105+85	205+00	WYE2
	205+00	220+66	EL2
	220+66	230+00	RF1
	230+00	357+00	AG4
	357+00	371+02	RF1
	371+02	383+00	EL2
BNSF-MC	383+00	474+09	WYE1
	500+00	550+00	WYE2
	550+00	720+00	AG4
	720+00	765+39	WYE1
BNSF-24ML	4302+03	4345+02	EL2
	4345+02	4351+00	RF1
	4351+00	4405+00	WYE1
	4405+00	5296+45	AG1
	5269+45	5266+88	RF2
	5266+88	5352+88	EL3
	5352+88	5371+50	RF2
	5371+50	5850+85	AG1
	5850+85	5866+57	RF2
	5866+57	5960+00	EL1
	5960+00	5967+00	RF2
	5967+00	5977+70	AG1
	5977+70	5989+20	TR2
	5989+20	5990+20	CC1
BNSF-24WC NB	5990+20	6003+00	TR2
	6003+00	6022+00	AG1
	6022+00	6040+60	TR2
	6040+60	6042+90	CC1
	6042+90	6052+50	TR1
	6052+50	6066+20	AG5
BNSF-24WC SB	500+00	582+14	WYE2
	582+14	592+75	RF1
	592+75	840+00	AG4
	840+00	896+06	WYE1

ALTERNATIVE BNSF AVENUE 24			
ALIGNMENT	BEGIN STATION	END STATION	SECTION
BNSF-24ML	892+90	1185+00	AG2
	1185+00	1235+00	WYE1
	1235+00	1332+20	AG2
	1332+20	1350+84	RF2
	1350+84	1430+00	WYE2
	1430+00	1431+49	EL1
	1431+49	1451+90	RF2
	1451+90	1864+25	AG2
	1864+25	1881+05	RF2
	1881+05	1890+17	EL1
	104+65	195+00	WYE2
	195+00	220+66	EL2
	220+66	227+55	RF1
BNSF-24WC NB	227+55	400+70	AG4
	400+70	438+00	RF1
	438+00	450+00	EL2
	450+00	477+55	WYE1
	477+55	508+20	RF1
BNSF-24WC SB	508+20	576+13	AG4
	500+00	582+14	WYE2
	582+14	592+75	RF1
	592+75	840+00	AG4
	840+00	896+06	WYE1

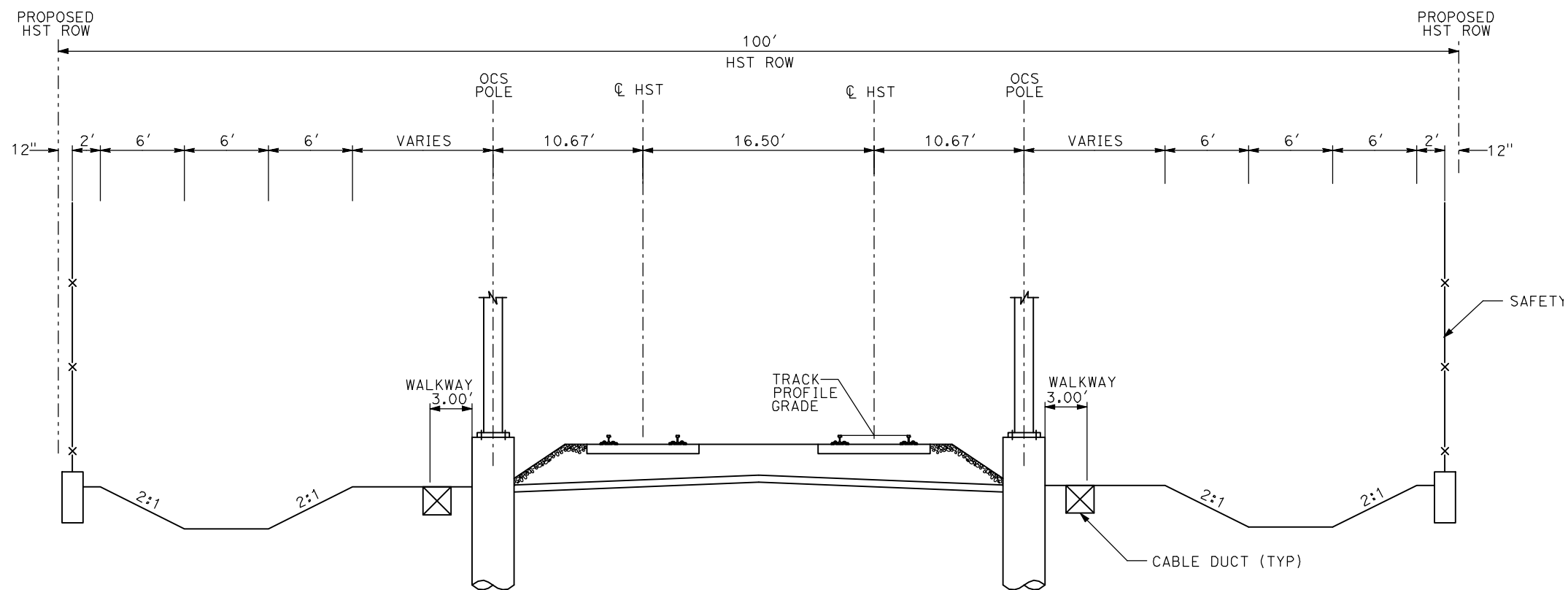
ALTERNATIVE UPRR/ SR 99 AVENUE 21			
ALIGNMENT	BEGIN STATION	END STATION	SECTION
UPRR/SR 99-21ML	270+60	604+70	AG2
	604+70	626+28	RF2
	626+28	715+00	EL1
	715+00	805+00	WYE1
	805+00	1294+33	EL1
	1294+33	1305+00	RF2
	1305+00	1570+00	AG1
	1570+00	1593+20	TR2
	1593+20	1594+10	CC1
	1594+10	1610+00	TR2
	1610+00	1615+00	AG1
	1615+00	1622+00	RF2
	1622+00	1635+00	EL1
	1635+00	1633+24	EL5
UPRR/SR 99-FR			
	1713+98	1737+00	EL6
	1737+00	1764+78	EL7
	1764+78	1767+00	EL8
	1767+00	1788+84	RF3
UPRR/SR 99-21WC NB	1788+84	1843+35	AG6
	1843+35	1893+95	RF3
	1893+95	1958+00	AG6
	1958+00	2072+36	AG7
	505+00	610+00	WYE1
UPRR/SR 99-21WC SB	610+00	619+50	EL2
	619+50	628+35	RF1
	628+35	714+80	AG4
	714+80	724+20	RF1
	724+20	780+00	EL2
	780+00	846+94	WYE2
UPRR/SR 99-21MC			
	105+00	180+00	WYE1
	180+00	298+80	AG4
	298+80	313+21	RF1
	313+21	340+00	EL2
	340+00	397+52	WYE2
UPRR/SR 99-24MC			
	4586+50	4670+00	WYE1
	4670+00	4796+00	AG1
	4796+00	4810+00	RF2
	4810+00	4975+00	EL1
	4975+00	5045+00	WYE2
	5045+00	5385+00	EL1
	5385+00	5425+00	RF2
	5425+00	5910+00	AG1
	5910+00	5915+50	TR2
	5915+50	5916+60	CC1
	5916+60	5924+00	TR2
	5924+00	5977+70	AG1
	5977+70	5989+30	TR2
UPRR/SR 99-24WC NB	5989+30	5990+40	CC1
	5990+40	6003+00	TR2
	6003+00	6022+00	AG1
	6022+00	6040+60	TR2
	6040+60	6042+90	CC1
	6042+90	6052+50	TR1
UPRR/SR 99-24WC SB	6052+50	6066+20	AG5

ALTERNATIVE UPRR/ SR 99 AVENUE 24			
ALIGNMENT	BEGIN STATION	END STATION	SECTION
UPRR/SR 99-24ML	917+20	965+00	AG2
	965+00	1030+00	WYE1
	1030+00	1330+00	AG2
	1330+00	1380+00	RF2
	1380+00	1515+00	EL1
	1515+00	1590+00	EL5
UPRR/SR 99-24WC NB	1590+00	1753+40	EL1
	105+00	205+00	WYE1
	205+00	220+00	EL2
	220+00	227+00	RF1
	227+00	349+90	AG4
	349+90	494+12	AG2
	494+12	521+00	AG4
	521+00	527+00	RF1
	527+00	555+00	EL2
	555+00	626+90	WYE1
	UPRR/SR 99-24WC SB	705+00	775+00
775+00		921+72	AG4
921+72		1062+85	AG2
1062+85		1130+00	AG4
1130+00		1191+24	WYE 1
UPRR/SR 99-24MC	4760+15	4845+00	WYE2
	4845+00	4907+25	EL1

7/20/2011 3:31:37 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\typical sections\WF-T-3001-A.dgn



AG1- DOUBLE TRACK AT GRADE ADJACENT TO UPRR/BNSF



AG2 - DOUBLE TRACK AT GRADE

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
 3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
C. VALADAO
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL

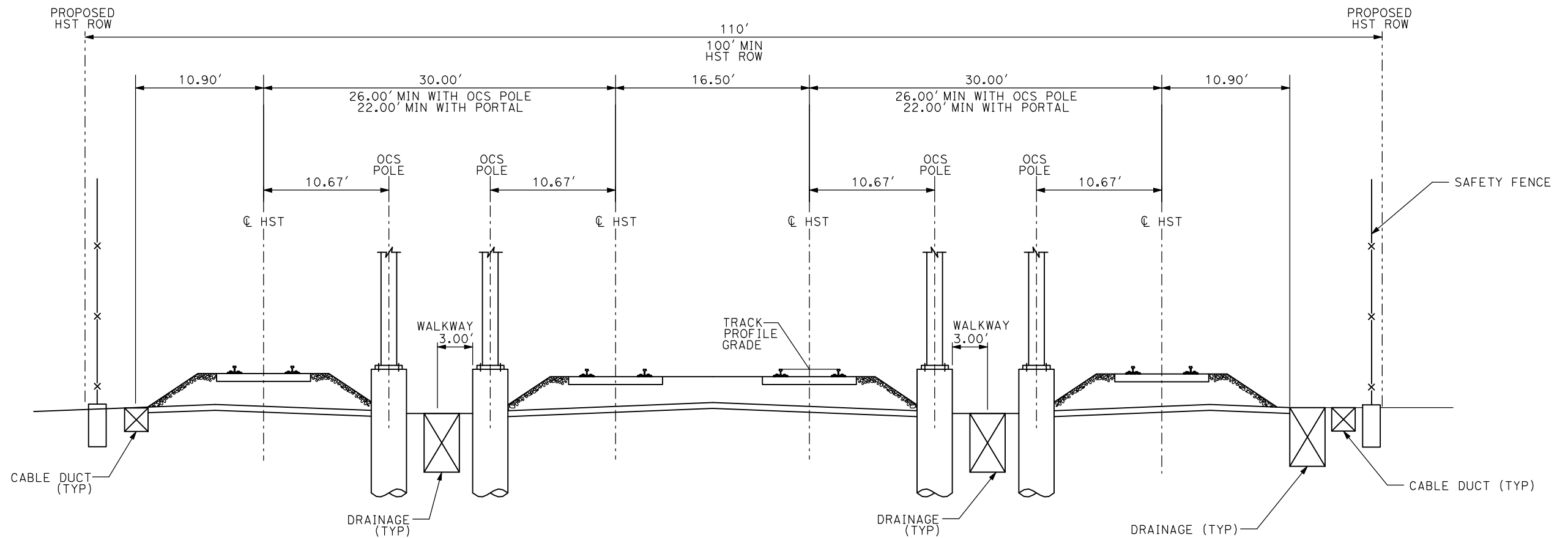


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

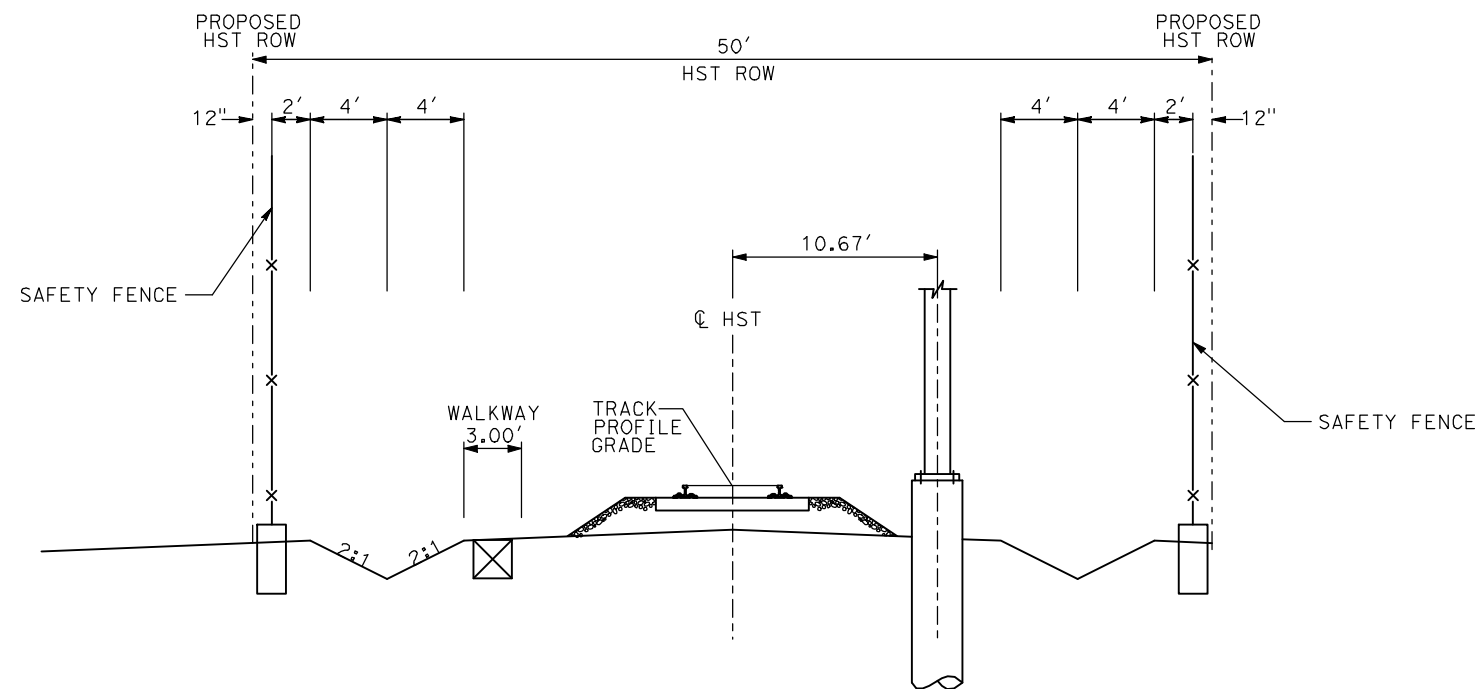
TYPICAL SECTIONS
SHEET 1 OF 17

CONTRACT NO.	HSR06-007
DRAWING NO.	T3001-A
SCALE	NO SCALE
SHEET NO.	OF ###

7/20/2011 3:31:42 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\typical sections\WF-T-3002-A.dgn
ShieldsA



AG3 - 4 TRACK AT GRADE



AG4 - SINGLE TRACK AT GRADE

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
 3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
C. VALADAO
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

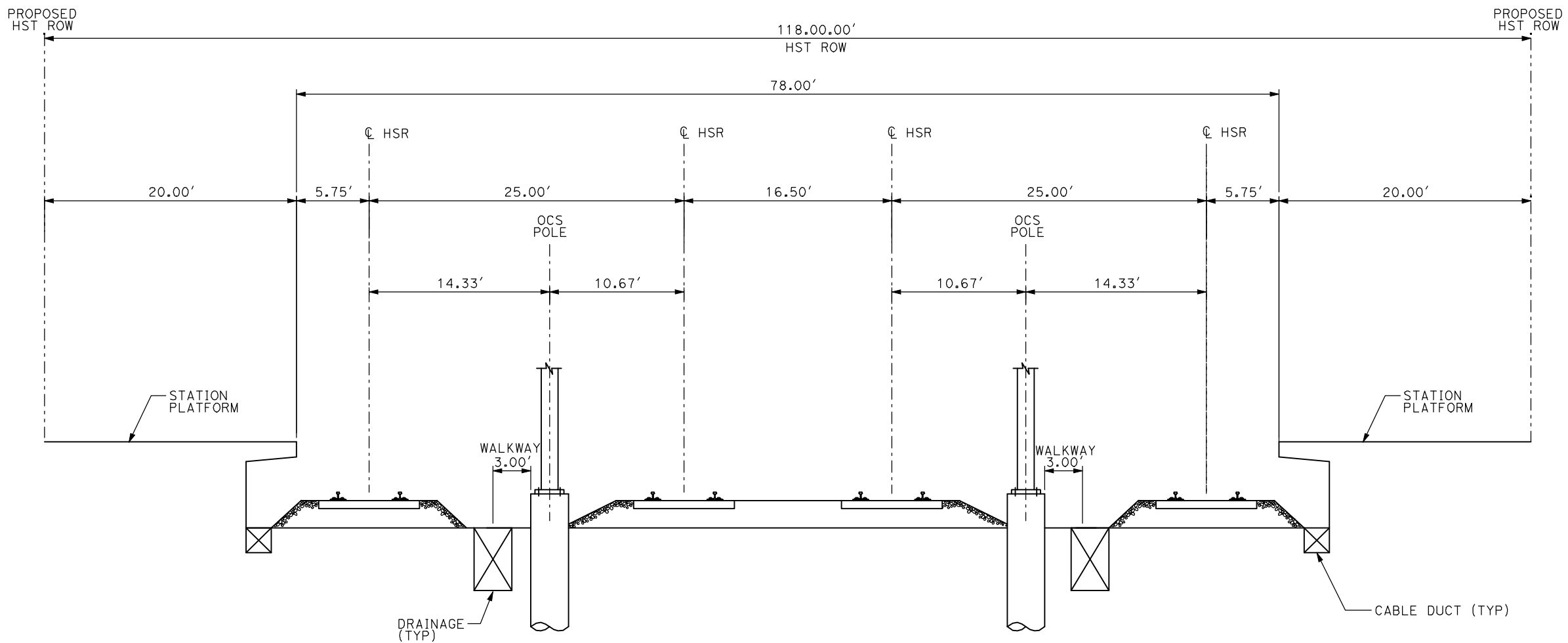
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

TYPICAL SECTIONS
SHEET 2 OF 17

CONTRACT NO.
HSR06-007
DRAWING NO.
T3002-A
SCALE
NO SCALE
SHEET NO.
OF ###



AG5 - 4 TRACK AT GRADE MERCED STATION

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
 3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

7/20/2011 3:31:46 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\typical sections\WF-T-3003-A.dgn

ShieldsA

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY C. VALADAO
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

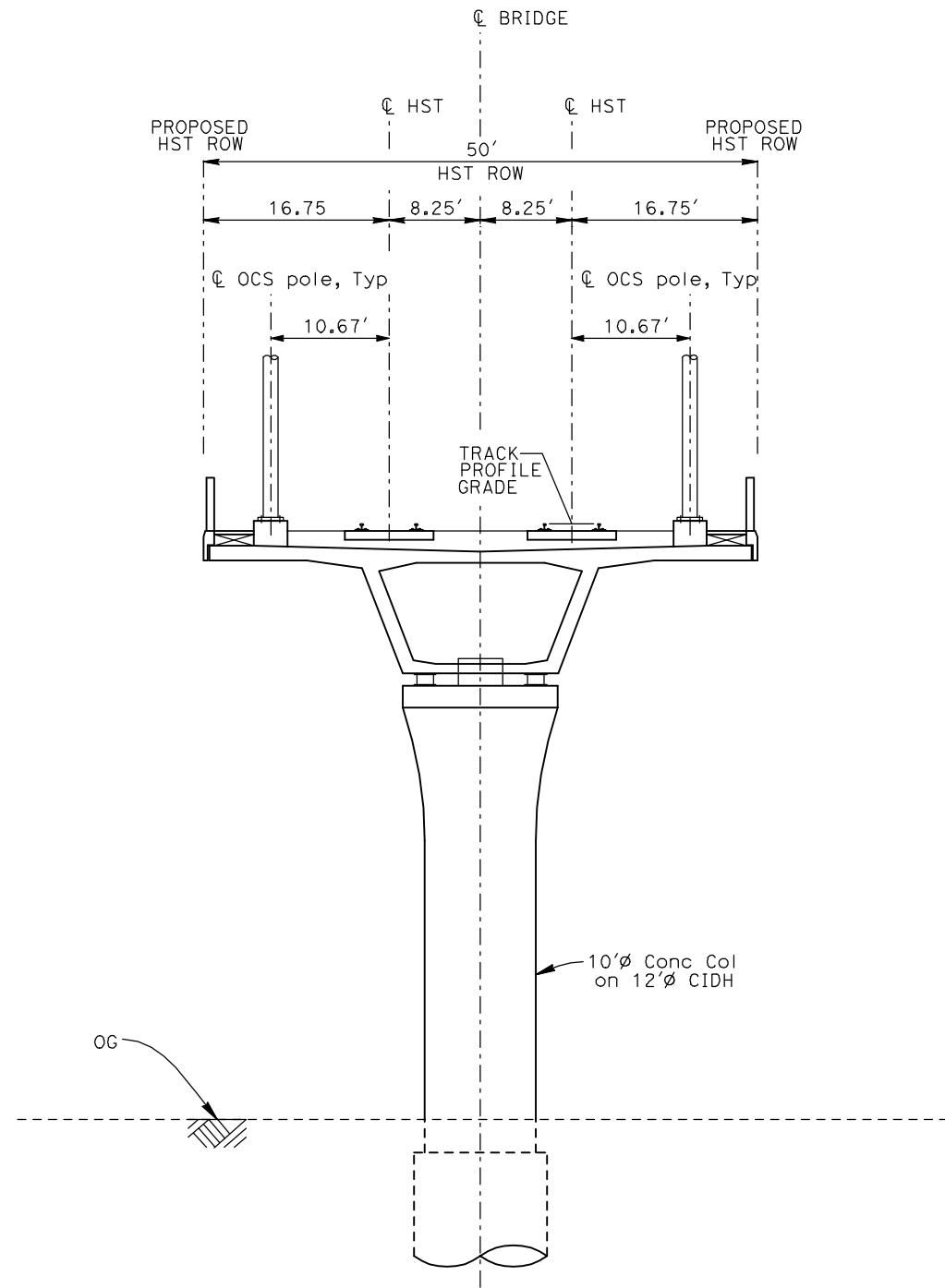


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

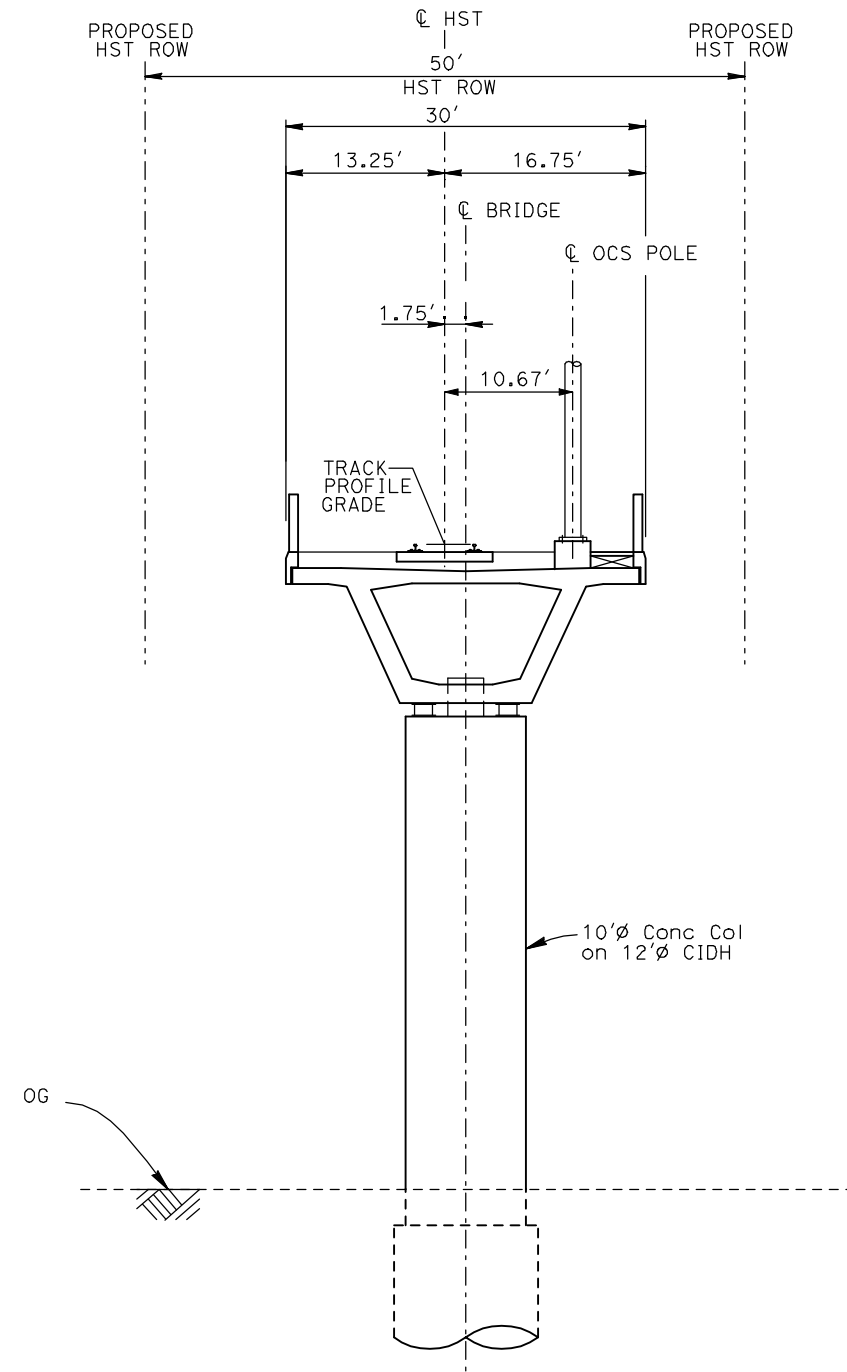
TYPICAL SECTIONS
SHEET 3 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3003-A
SCALE NO SCALE
SHEET NO. OF ###

7/20/2011 3:31:50 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\typical sections WF-T-3004-A.dgn
ShieldsA



EL1 - DOUBLE TRACK ELEVATED



EL2 - SINGLE TRACK ELEVATED

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. BACK-TO-BACK CANTILEVERS ON A SINGLE POLE MAY BE PERMITTED AT PASSENGER STATIONS.
 3. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
 4. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
C. VALADAO
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



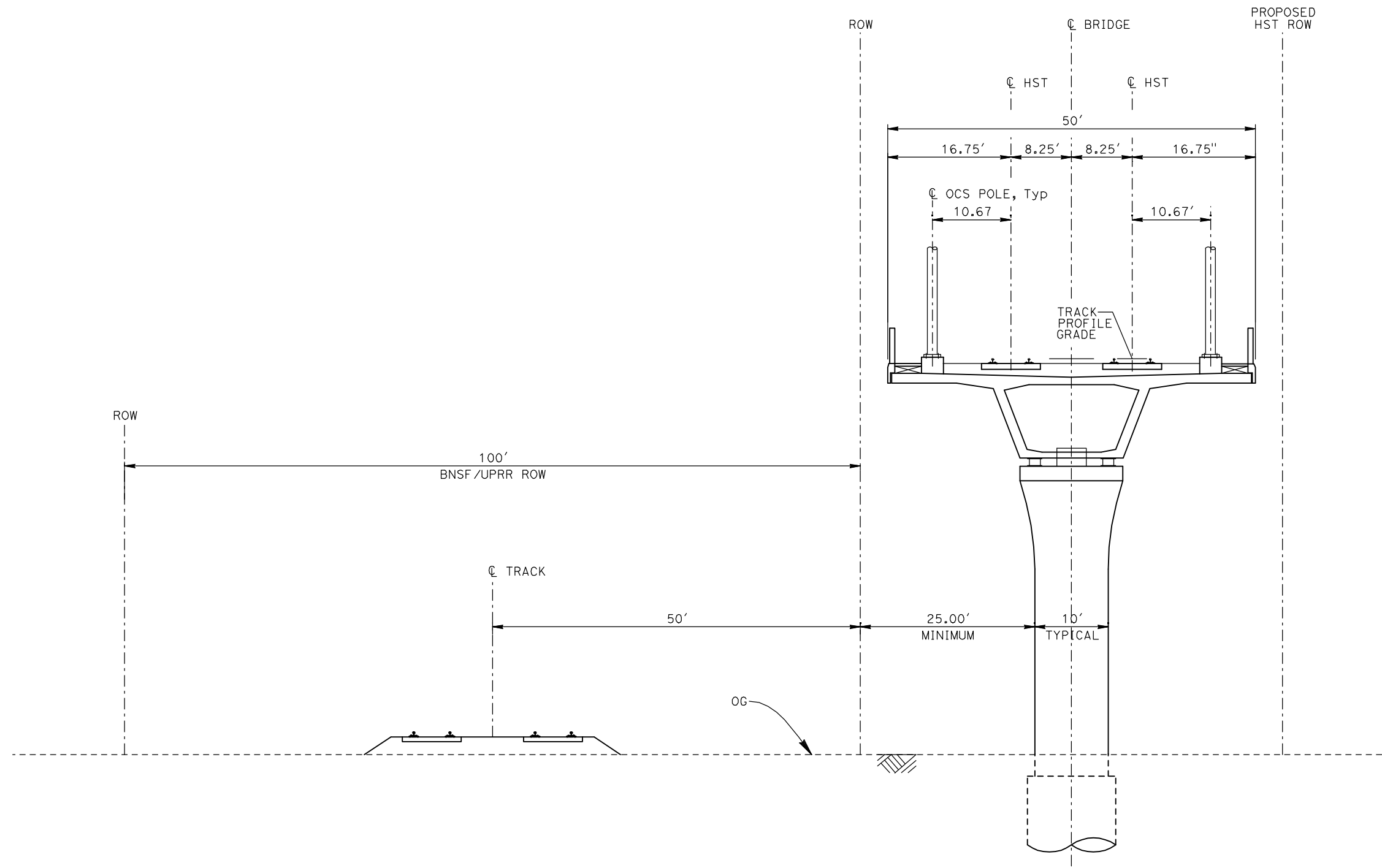
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

TYPICAL SECTIONS
SHEET 4 OF 17

CONTRACT NO.	HSR06-007
DRAWING NO.	T3004-A
SCALE	NO SCALE
SHEET NO.	OF ###

7/20/2011 3:31:54 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\typical sections\WF-T-3005-A.dgn

ShieldsA



EL3 - DOUBLE TRACK ELEVATED ADJACENT TO UPRR/BNSF

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
 3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
C. VALADAO
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL



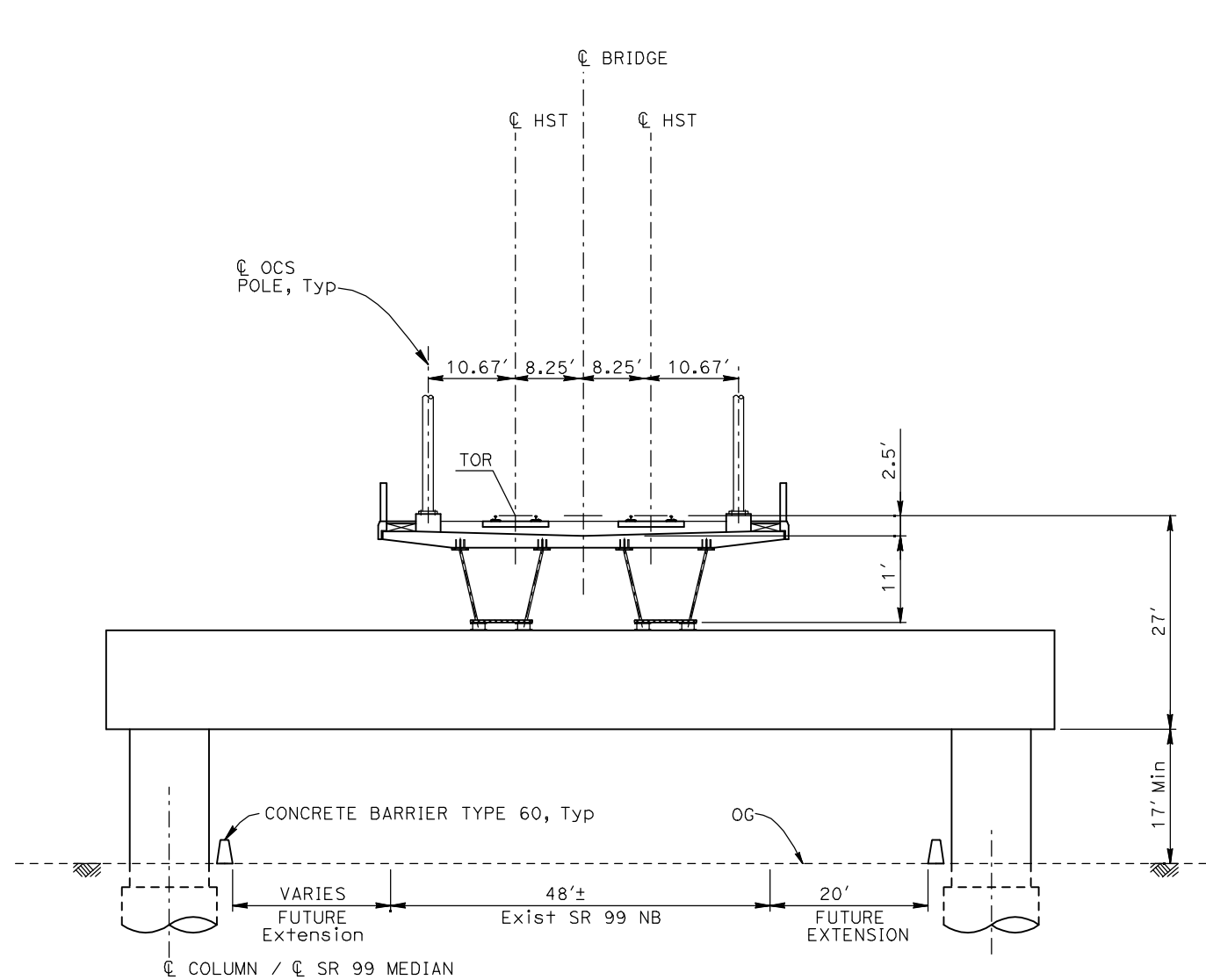
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

TYPICAL SECTIONS
SHEET 5 OF 17

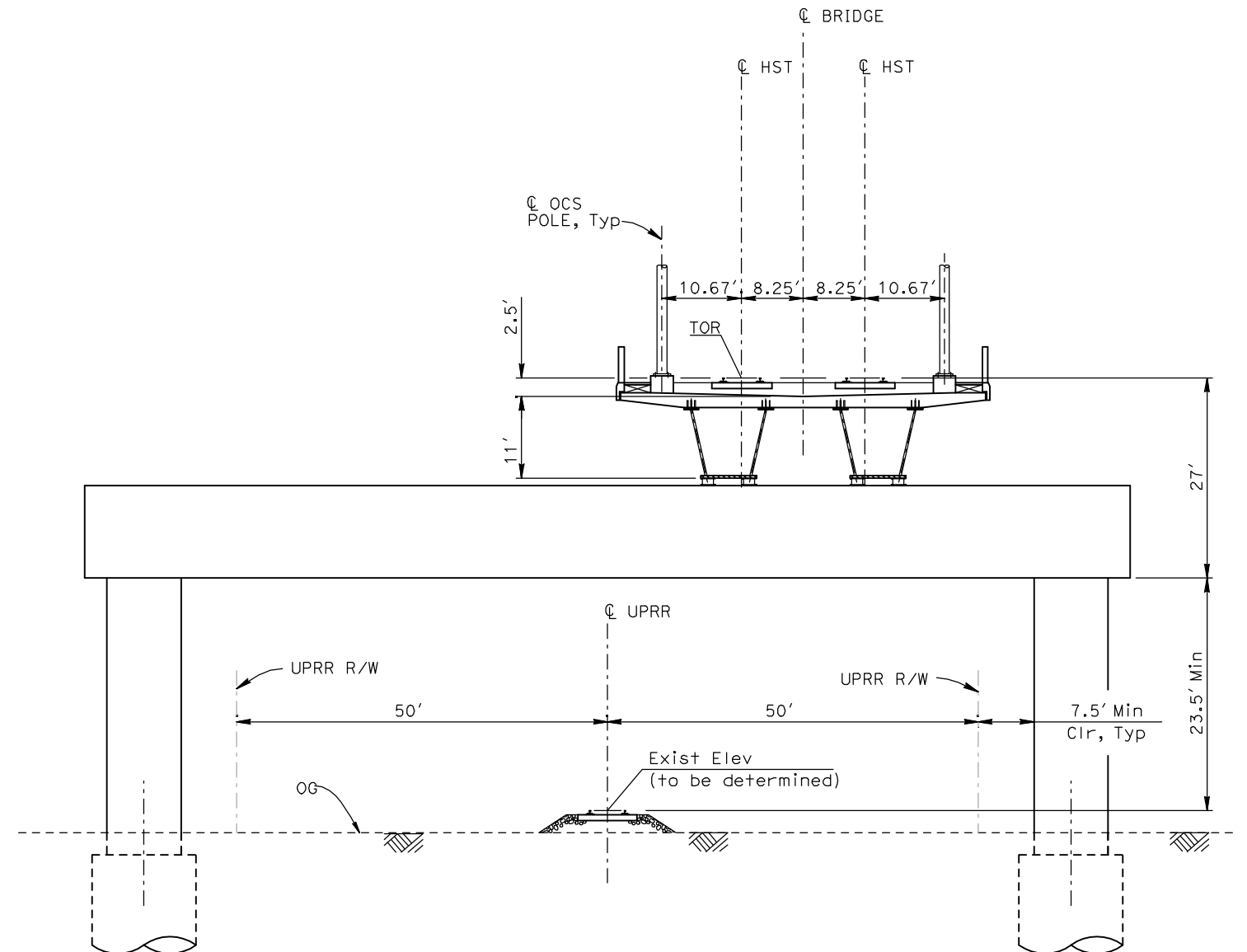
CONTRACT NO.
HSR06-007
DRAWING NO.
T3005-A
SCALE
NO SCALE
SHEET NO.
OF ###

7/20/2011 3:31:58 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\typical sections\WF-T-3006-A.dgn

ShieldsA



EL4 - DOUBLE TRACK ELEVATED CROSSING SR99



EL5 - DOUBLE TRACK ELEVATED CROSSING UPRR/BNSF

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
 3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
C. VALADAO
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



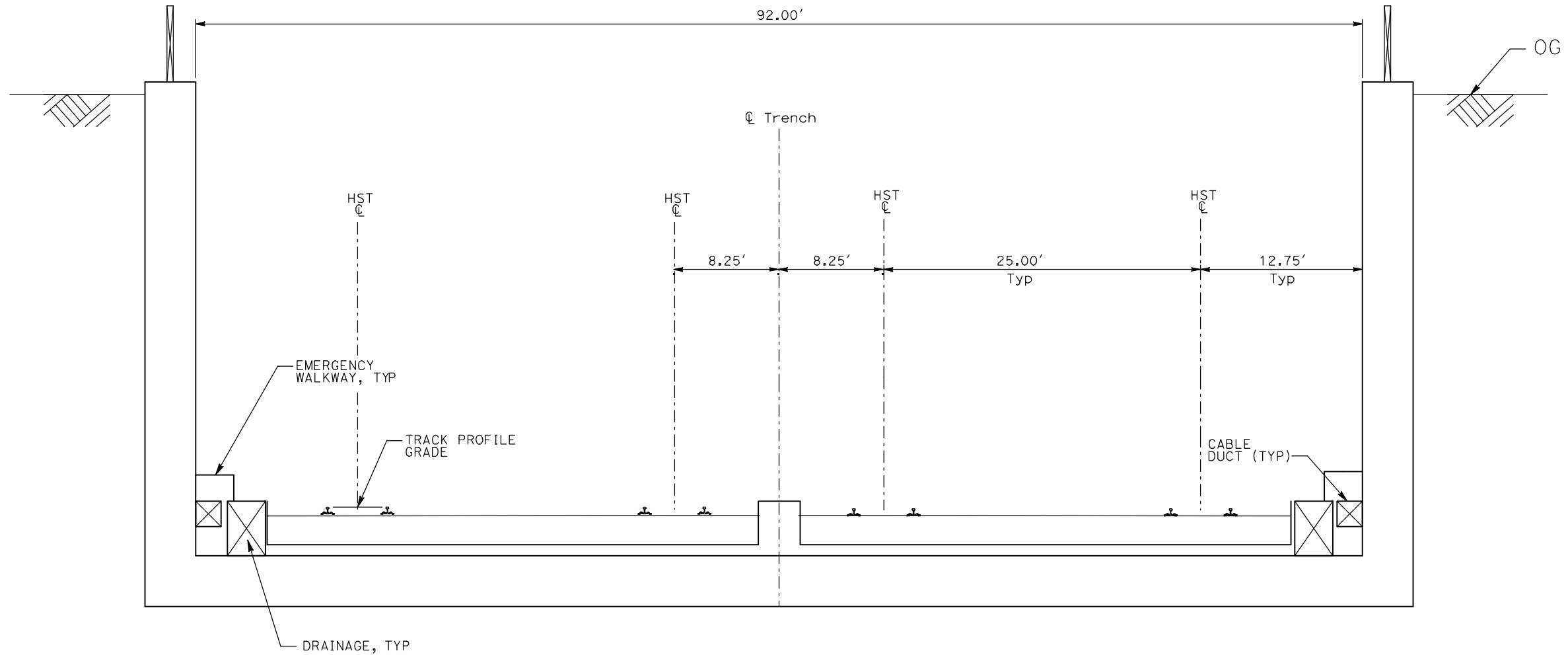
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

TYPICAL SECTIONS
SHEET 6 OF 17

CONTRACT NO.
HSR06-007
DRAWING NO.
T3006-A
SCALE
NO SCALE
SHEET NO.
OF ###

i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\typical sections\WF-T-3007-A.dgn

ShieldsA



TR1 - 4 TRACK TRENCH STATION APPROACH

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
 3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
C. VALADAO
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL



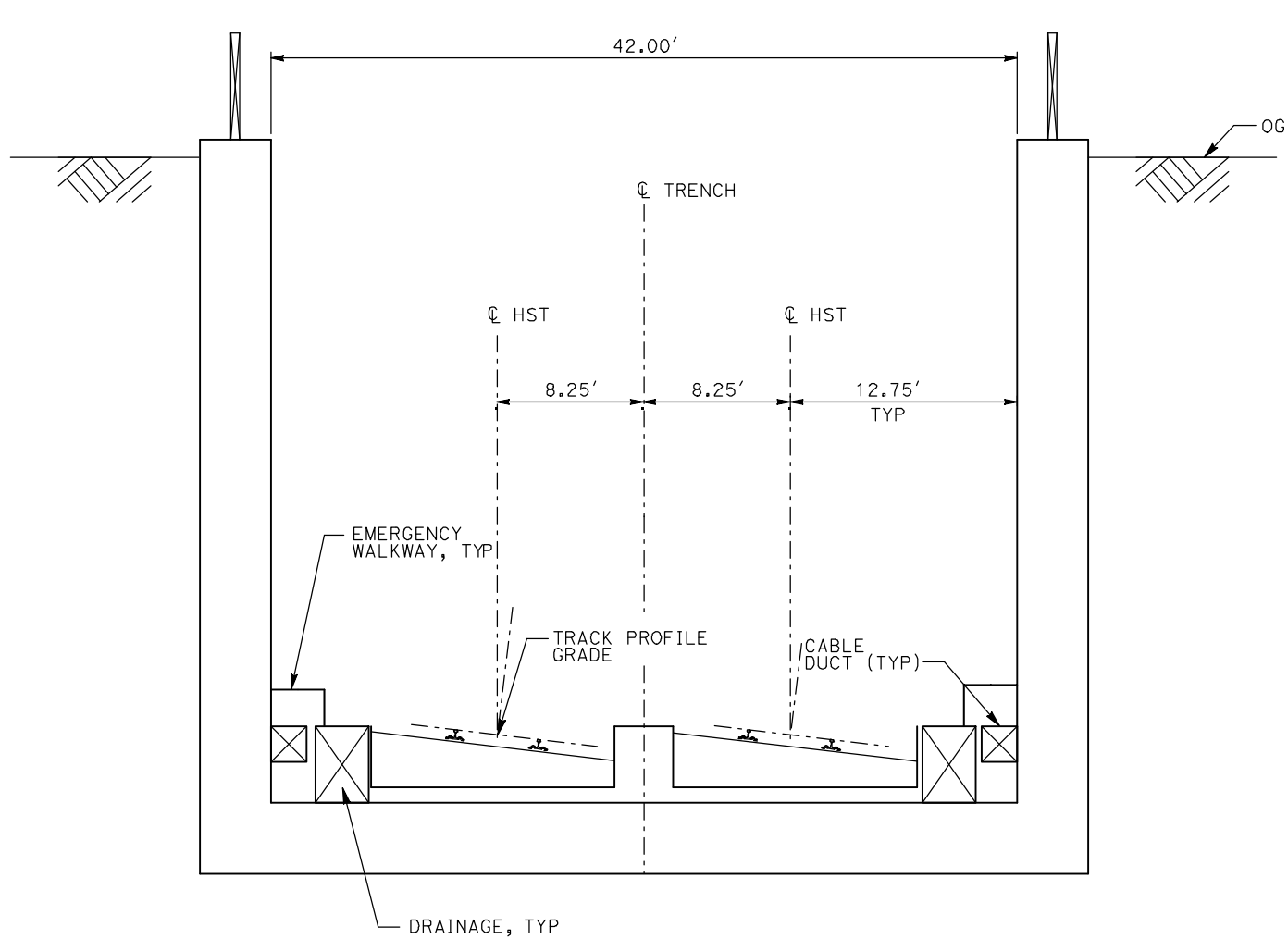
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

TYPICAL SECTIONS
SHEET 7 OF 17

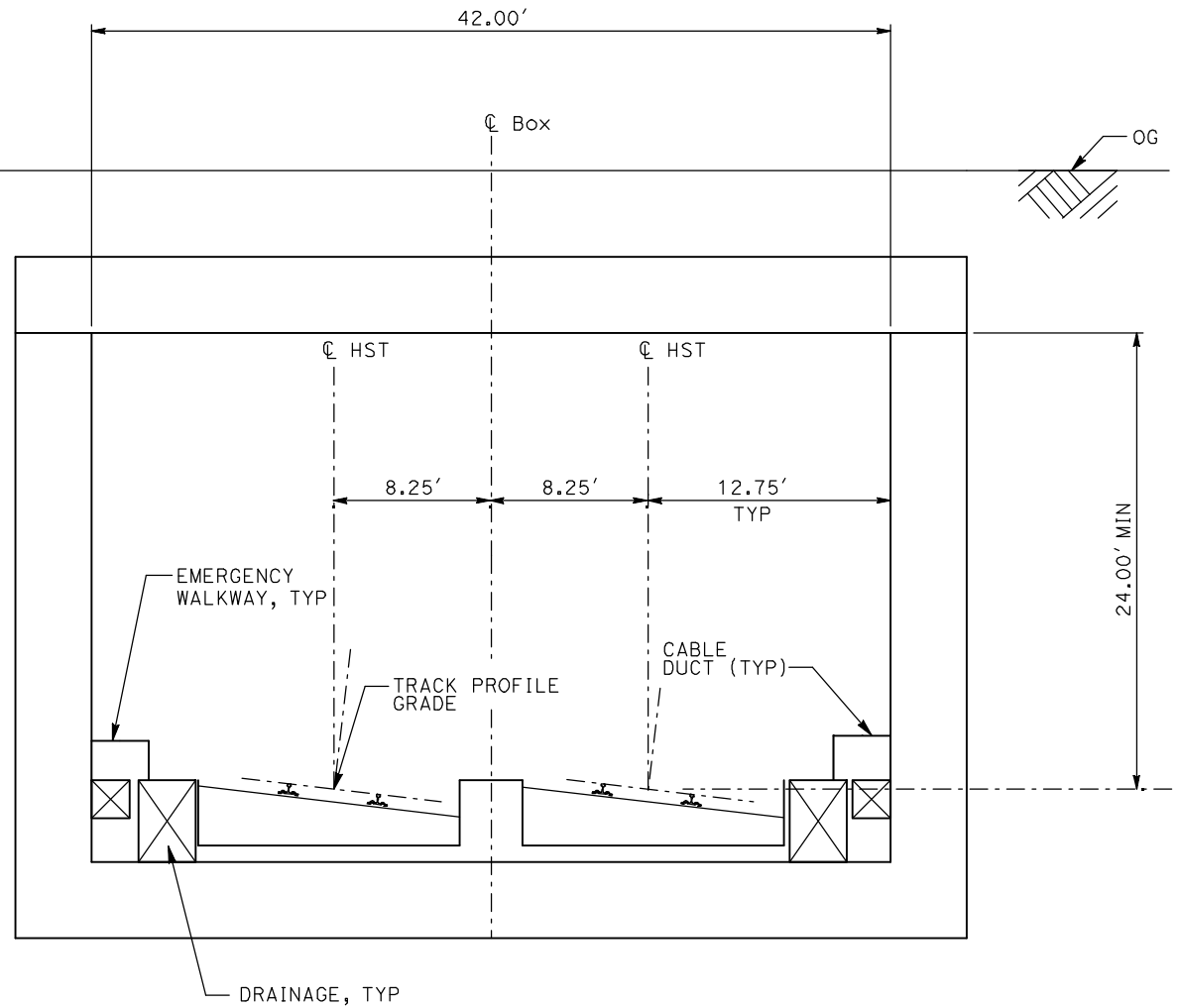
CONTRACT NO.
HSR06-007
DRAWING NO.
T3007-A
SCALE
NO SCALE
SHEET NO.
OF ###

7/20/2011 3:32:06 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\typical sections\WF-T-3008-A.dgn

ShieldsA



TR2 - 2 TRACK TRENCH



CC1 - 2 TRACK CUT AND COVER CLOSED BOX

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
 3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
C. VALADAO
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

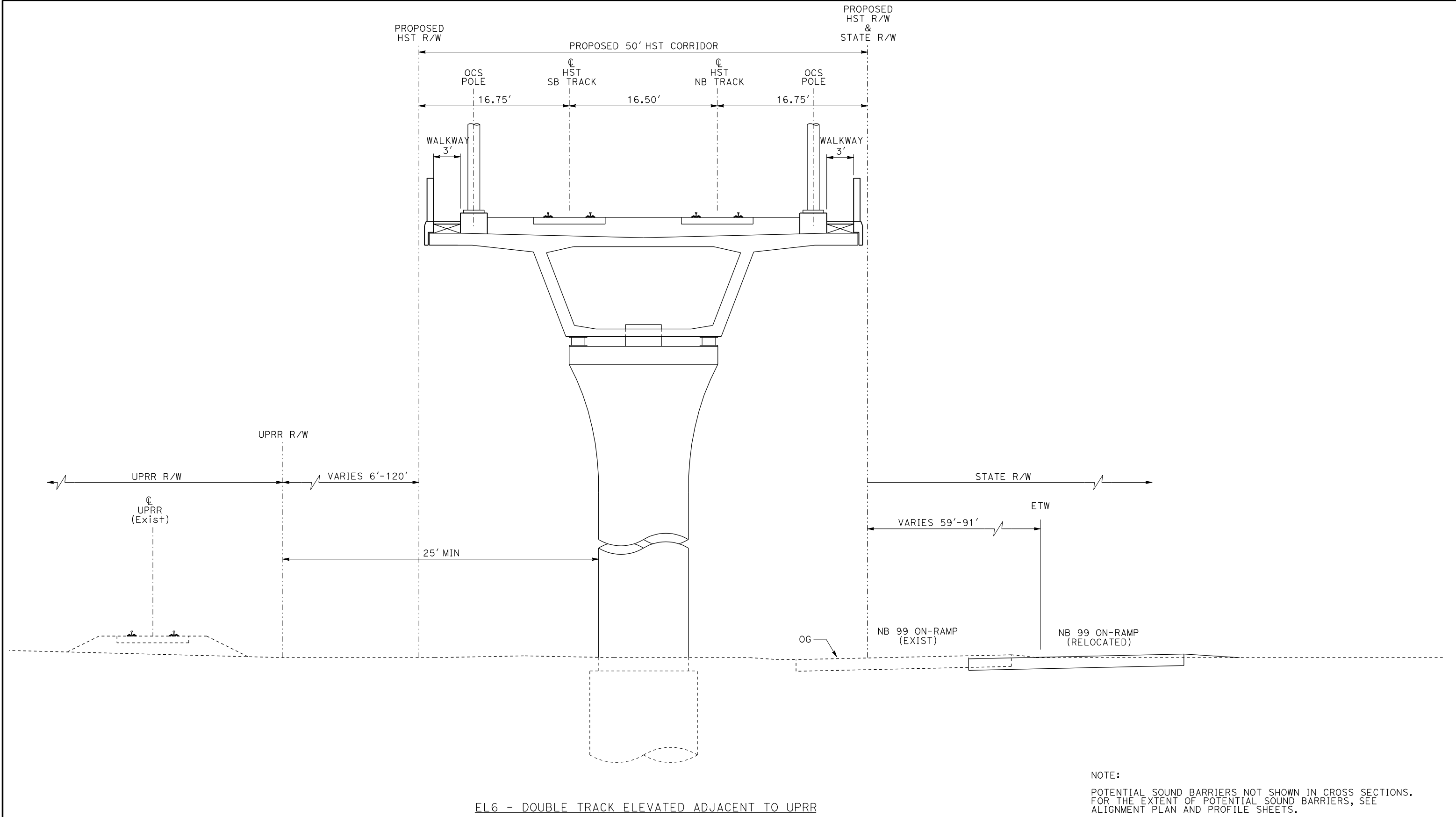


**CALIFORNIA
HIGH-SPEED RAIL AUTHORITY**

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

TYPICAL SECTIONS
SHEET 8 OF 17

CONTRACT NO.
HSR06-007
DRAWING NO.
T3008-A
SCALE
NO SCALE
SHEET NO.
OF ###



EL6 - DOUBLE TRACK ELEVATED ADJACENT TO UPRR

NOTE:
POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS.
FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE
ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY L. PROCTOR
DRAWN BY S. LEONG
CHECKED BY V. CHIO
IN CHARGE J. VALSECCHI
DATE JULY 2011

RECORD SET
15% DESIGN
SUBMITTAL

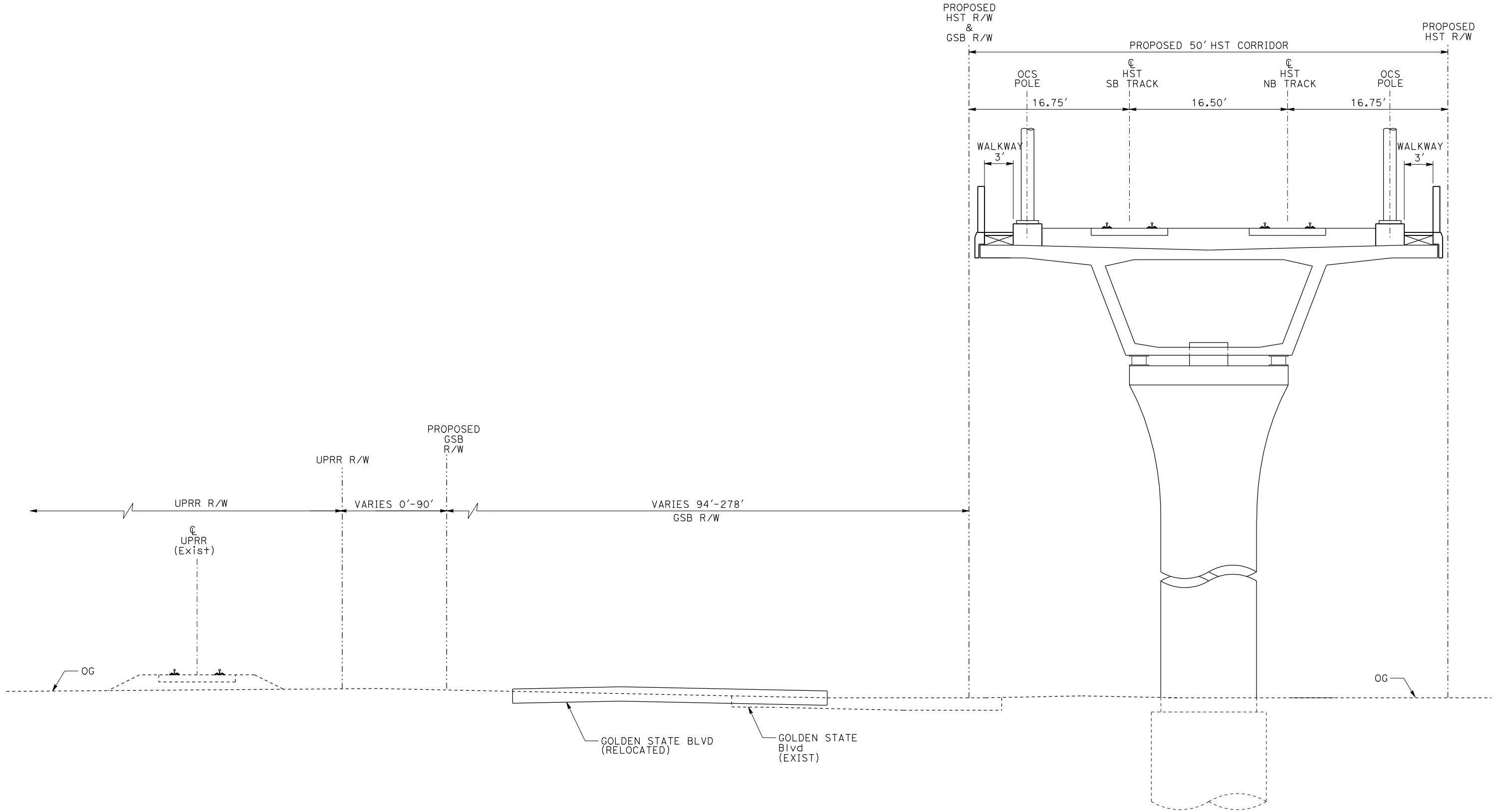
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

TYPICAL SECTIONS
SHEET 9 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3009-A
SCALE NO SCALE
SHEET NO.



EL7 - DOUBLE TRACK ELEVATED ADJACENT TO GOLDEN STATE BOULEVARD

NOTE:
POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS.
FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE
ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY L. PROCTOR
DRAWN BY S. LEONG
CHECKED BY V. CHIO
IN CHARGE J. VALSECCHI
DATE JULY 2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

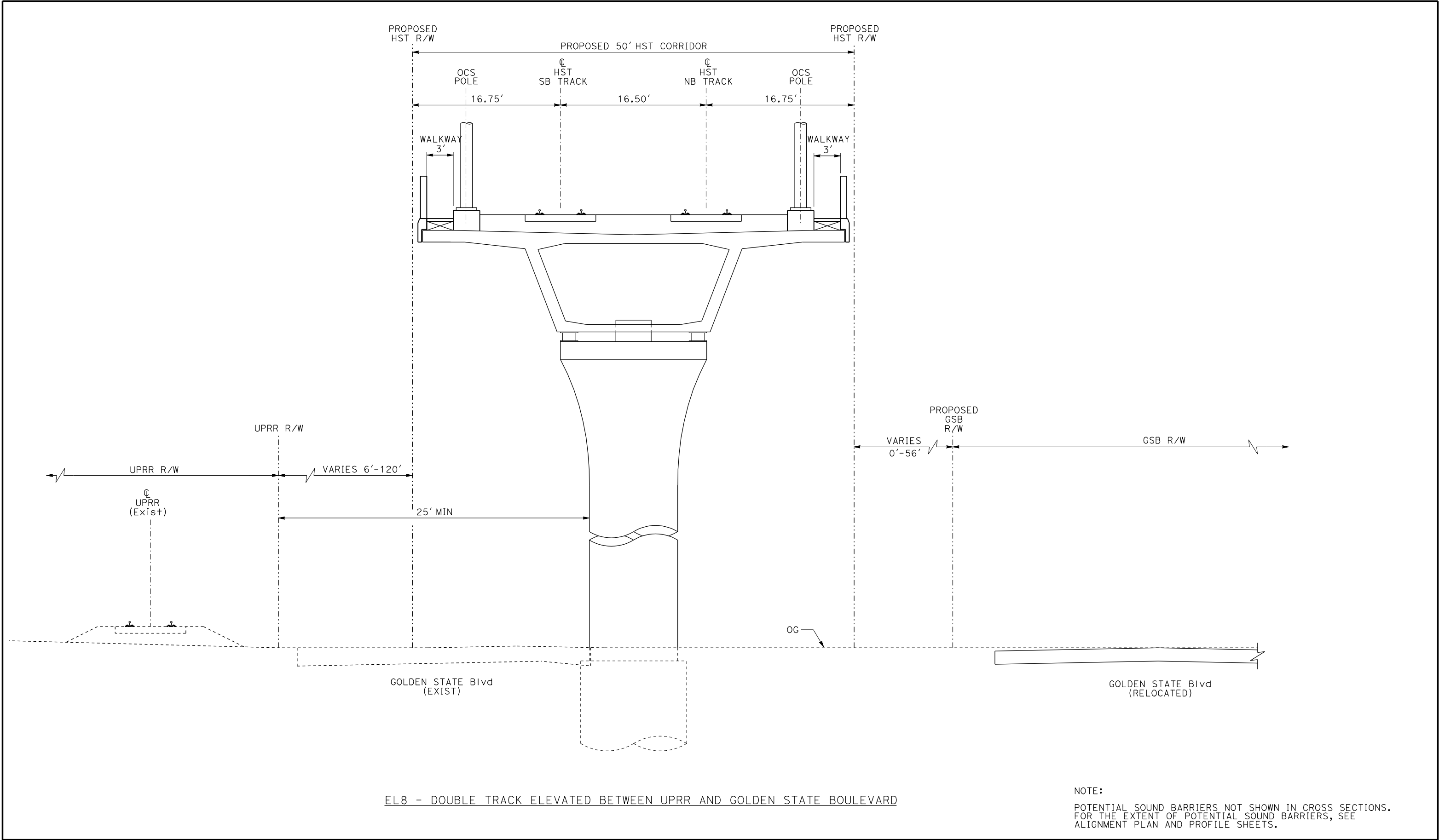


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO


TYPICAL SECTIONS
SHEET 10 OF 17

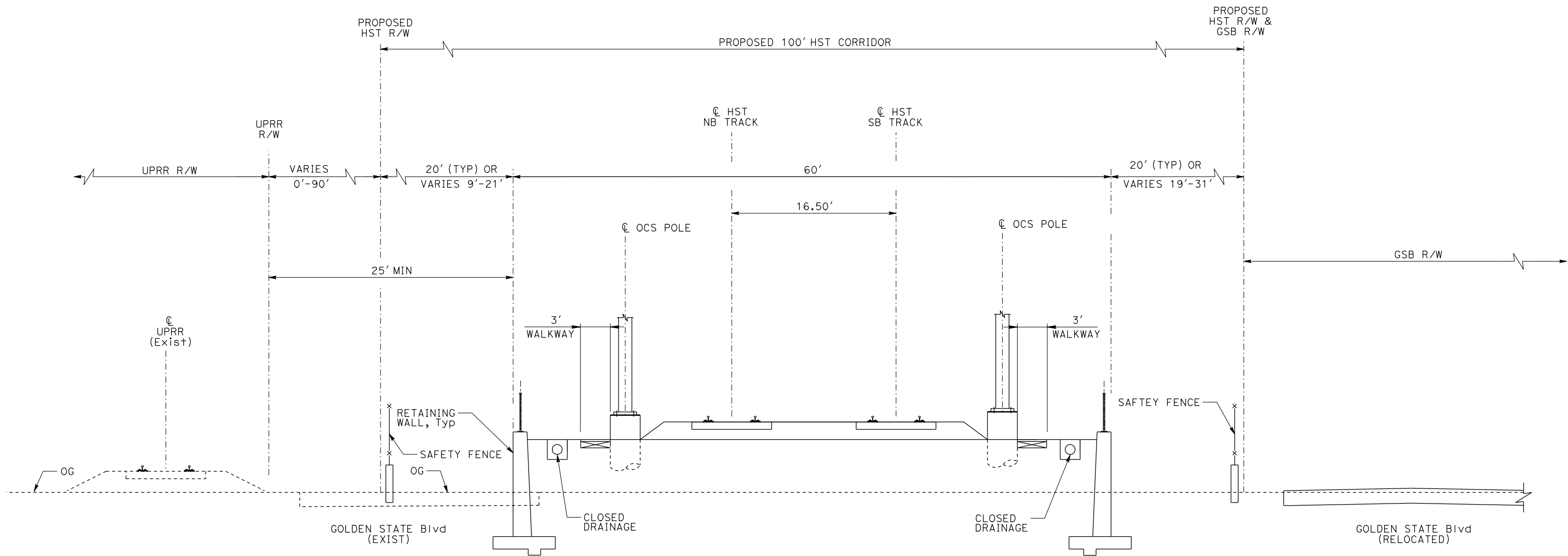
CONTRACT NO. HSR06-007
DRAWING NO. T3010-A
SCALE NO SCALE
SHEET NO.



EL8 - DOUBLE TRACK ELEVATED BETWEEN UPRR AND GOLDEN STATE BOULEVARD

NOTE:
POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS.
FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE
ALIGNMENT PLAN AND PROFILE SHEETS.

					DESIGNED BY L. PROCTOR	RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION	<div><div>AECOM</div><div>Technical Services, Inc. 2020 L Street, Suite 300 Sacramento, CA 95811</div><div>CH2MHILL</div></div>	<div><div></div><div>CALIFORNIA HIGH-SPEED RAIL AUTHORITY</div></div>	CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO	CONTRACT NO. HSR06-007
					DRAWN BY S. LEONG					DRAWING NO. T3011-A
					CHECKED BY V. CHIO					SCALE NO SCALE
					IN CHARGE J. VALSECCHI					SHEET NO.
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE JULY 2011				



RF3 - DOUBLE TRACK BETWEEN UPRR AND GOLDEN STATE BOULEVARD

NOTE:
POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS.
FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE
ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY L. PROCTOR
DRAWN BY S. LEONG
CHECKED BY V. CHIO
IN CHARGE J. VALSECCHI
DATE JULY 2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

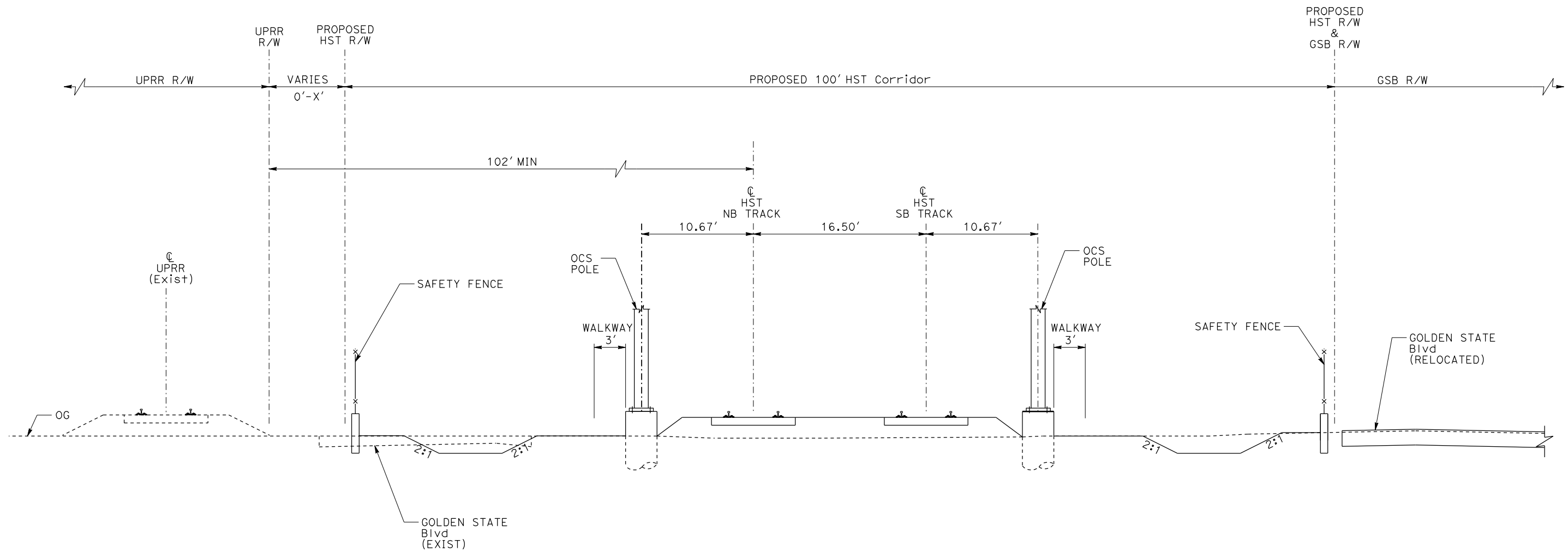


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

TYPICAL SECTION
SHEET 12 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3012-A
SCALE NO SCALE
SHEET NO.



AG6 - DOUBLE TRACK BETWEEN UPRR AND GOLDEN STATE BOULEVARD

NOTE:

POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS.
FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE
ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY L. PROCTOR
DRAWN BY S. LEONG
CHECKED BY V. CHIO
IN CHARGE J. VALSECCHI
DATE JULY 2011

RECORD SET 15% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL



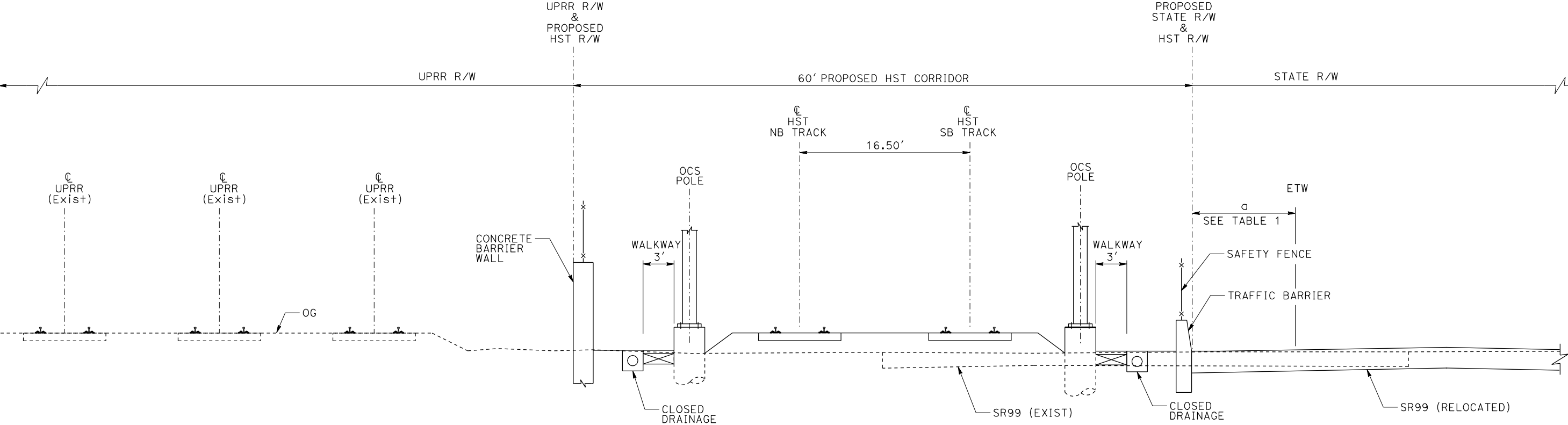
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

TYPICAL SECTION
SHEET 13 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3013-A
SCALE NO SCALE
SHEET NO.

TABLE 1

a > 30'	NO TRAFFIC BARRIER
4' < a < 30'	TRAFFIC BARRIER



AG7 - DOUBLE TRACK BETWEEN UPRR AND STATE ROUTE 99

NOTE:
POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS.
FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE
ALIGNMENT PLAN AND PROFILE SHEETS.

						DESIGNED BY L. PROCTOR
						DRAWN BY S. LEONG
						CHECKED BY V. CHIO
						IN CHARGE J. VALSECCHI
						DATE JULY 2011
REV	DATE	BY	CHK	APP		DESCRIPTION

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

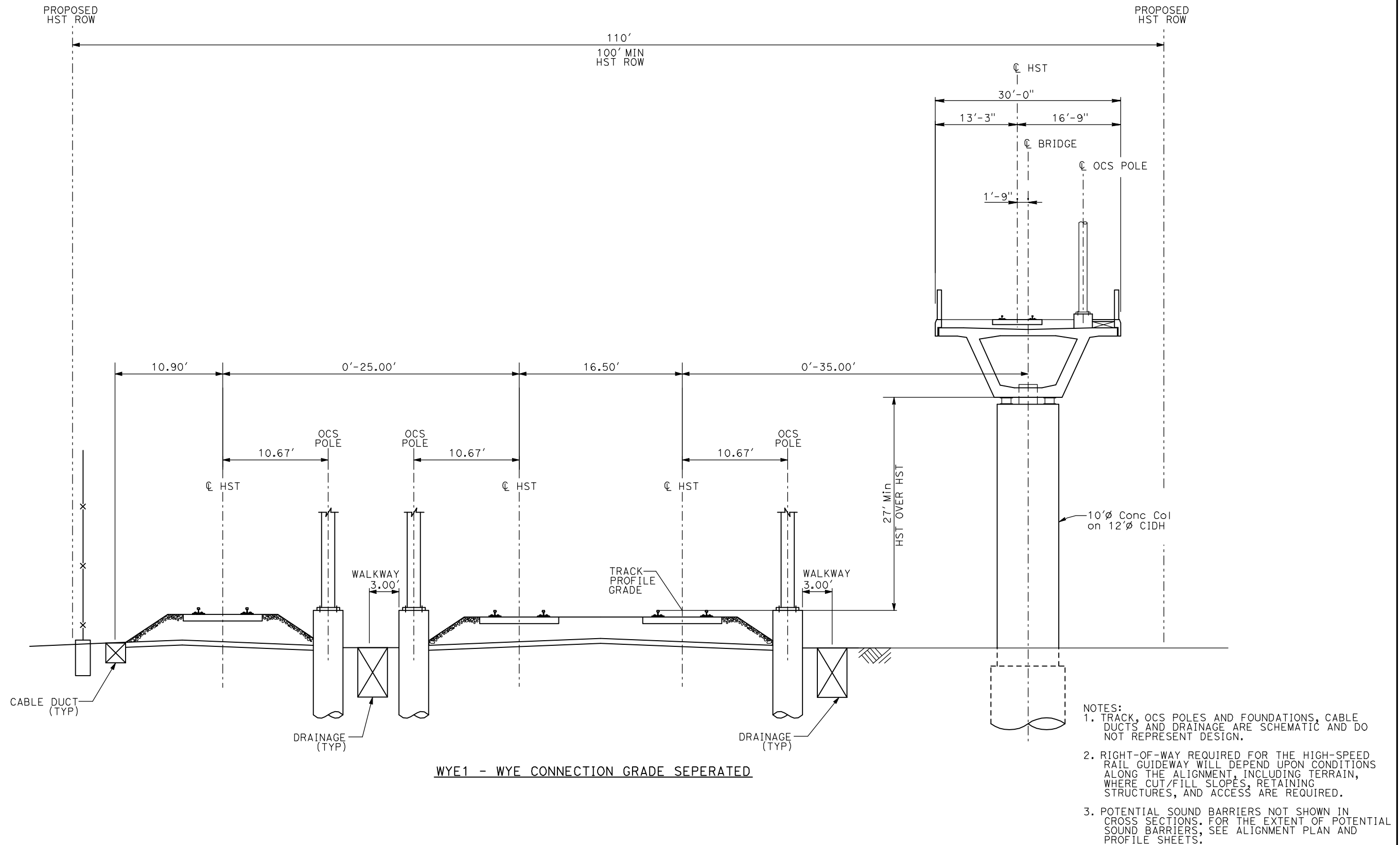


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

TYPICAL SECTION
SHEET 14 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3014-A
SCALE NO SCALE
SHEET NO.

7/20/2011 3:32:10 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\typical sections\WF-T-3015-A.dgn
ShieldsA



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
C. VALADAO
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL



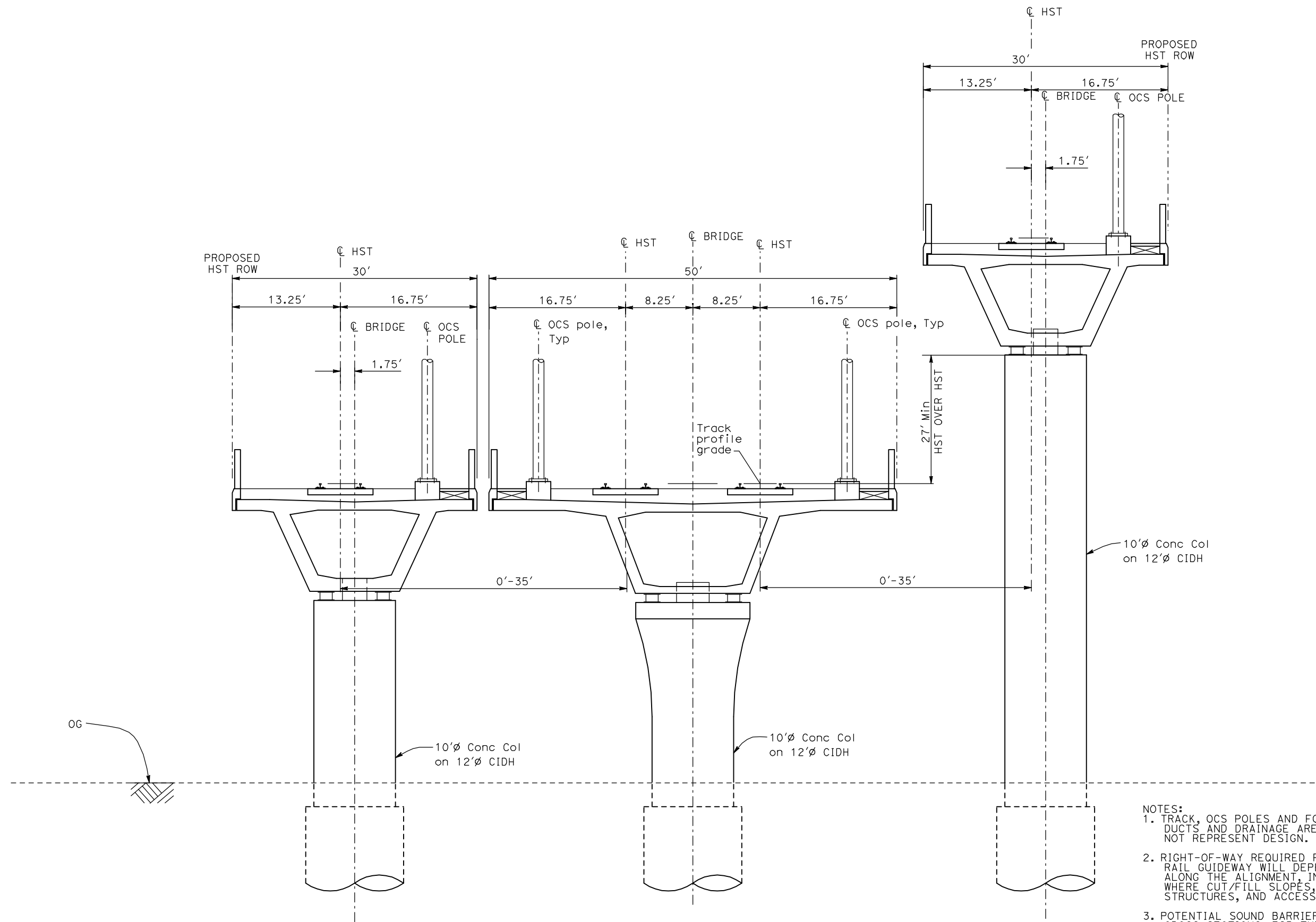
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

TYPICAL SECTIONS
SHEET 15 OF 17

CONTRACT NO.
HSR06-007
DRAWING NO.
T3015-A
SCALE
NO SCALE
SHEET NO.
OF ###

7/20/2011 3:32:14 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\typical sections\WF-T-3016-A.dgn



- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
 3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

WYE2 - WYE CONNECTION GRADE SEPERATED

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
C. VALADAO
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

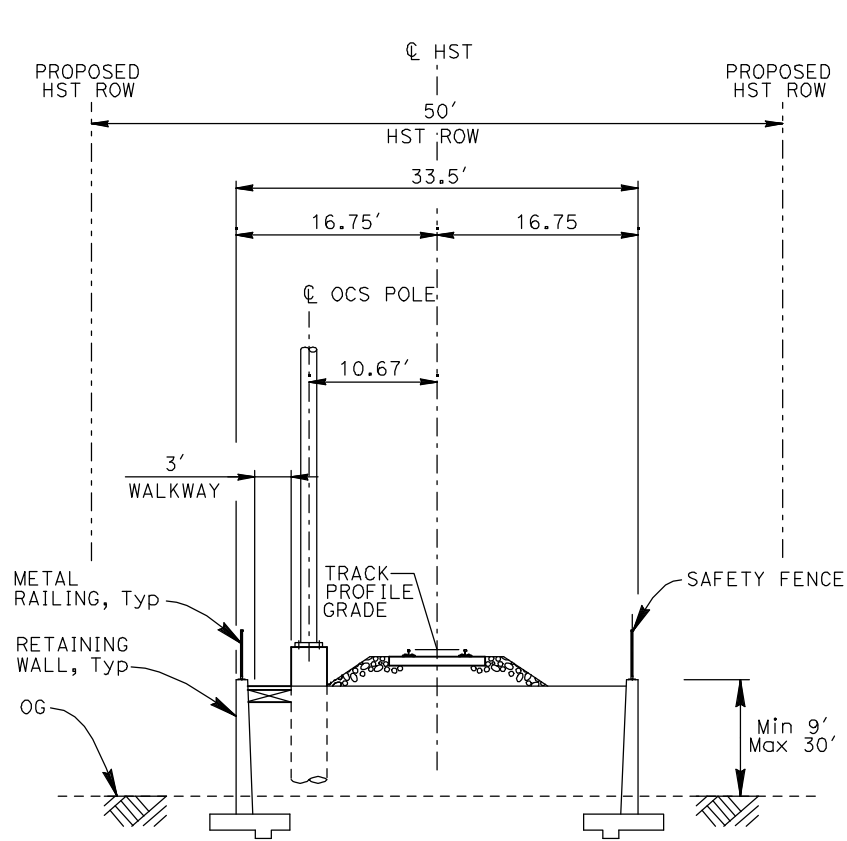
TYPICAL SECTIONS
SHEET 16 OF 17

CONTRACT NO.
HSR06-007
DRAWING NO.
T3016-A
SCALE
NO SCALE
SHEET NO.
OF ###

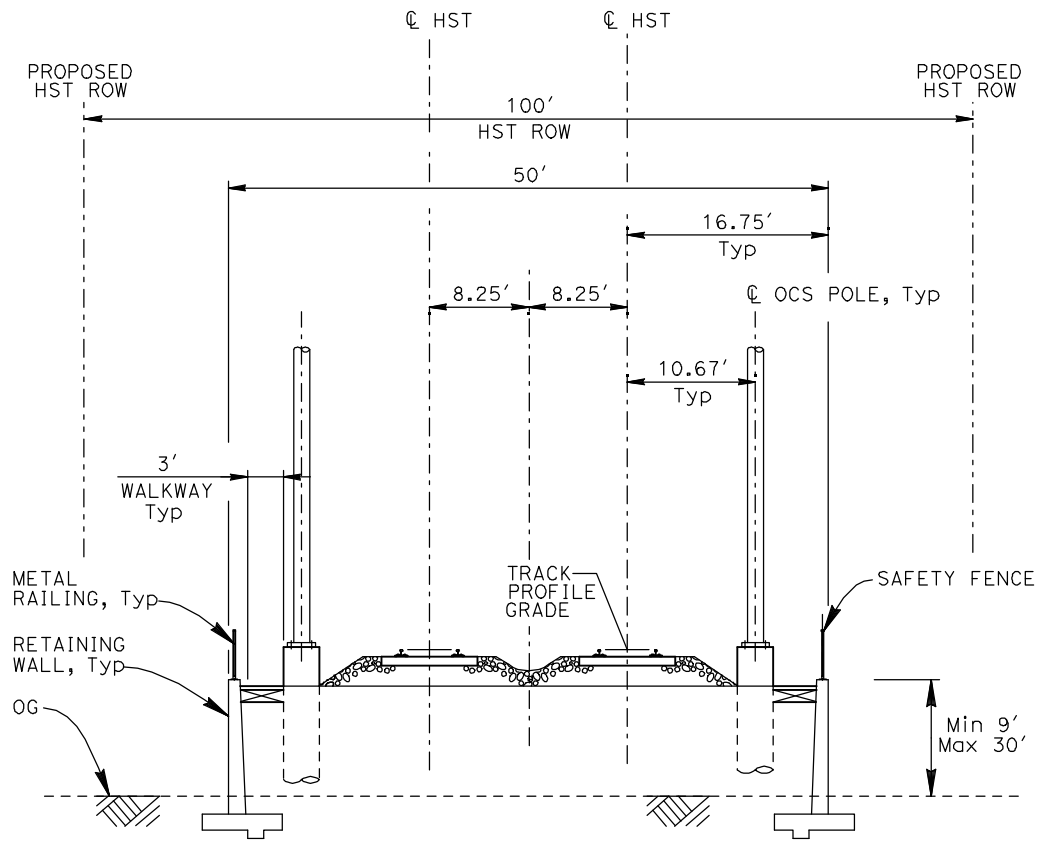
i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\typical sections\WF-T-3017-A.dgn

ShieldsA

7/20/2011 3:32:18 PM



RF1 - SINGLE TRACK RETAINED FILL



RF2 - DOUBLE TRACK RETAINED FILL

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
 3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY C. VALADAO
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



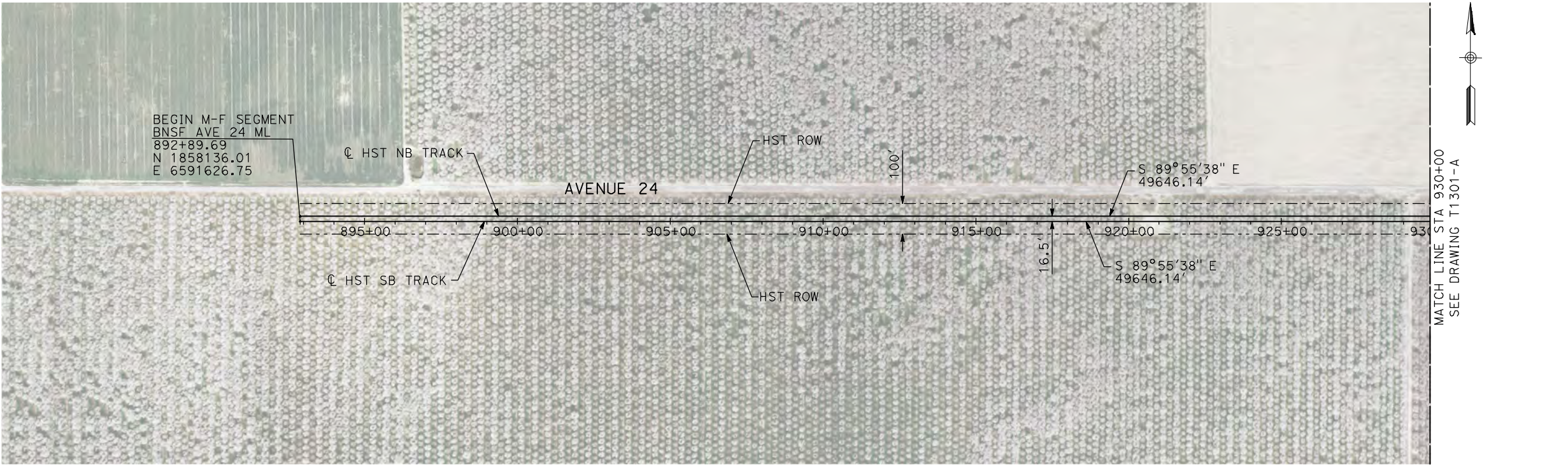
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

TYPICAL SECTIONS
SHEET 17 OF 17

CONTRACT NO. HSR06-007
DRAWING NO. T3017-A
SCALE NO SCALE
SHEET NO. OF ###

7/21/2011 11:28:16 AM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF_AVE_24\MF-T-1300-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



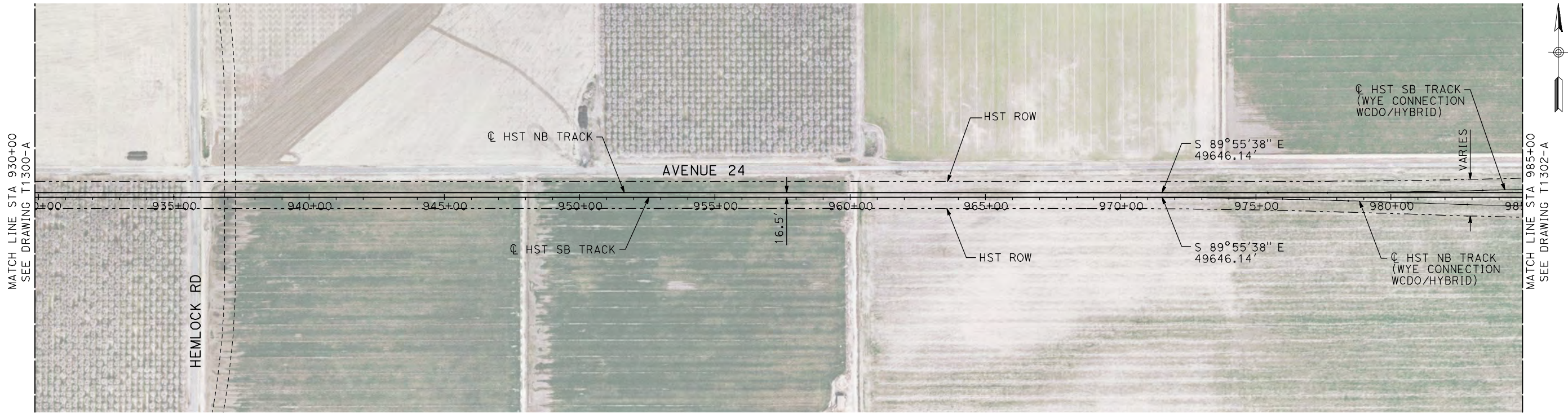
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 892+89.69 TO STA 930+00

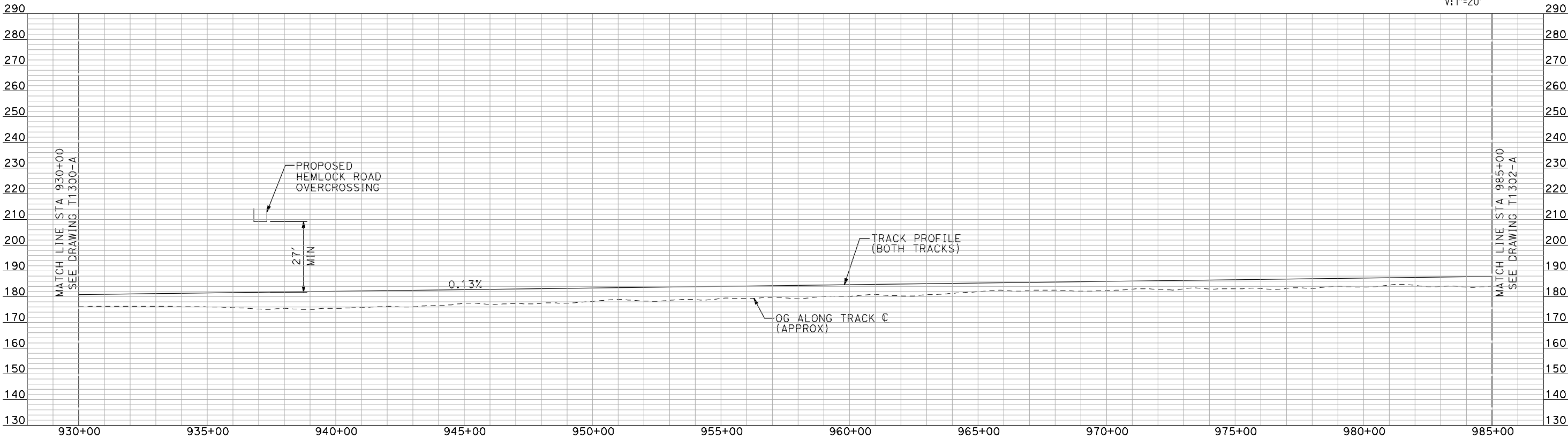
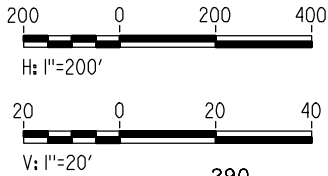
CONTRACT NO. HSR06-007
DRAWING NO. T1300-A
SCALE AS SHOWN
SHEET NO. ### OF ###

7/21/2011 11:28:46 AM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF_AVE 24\MF-T-1301-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

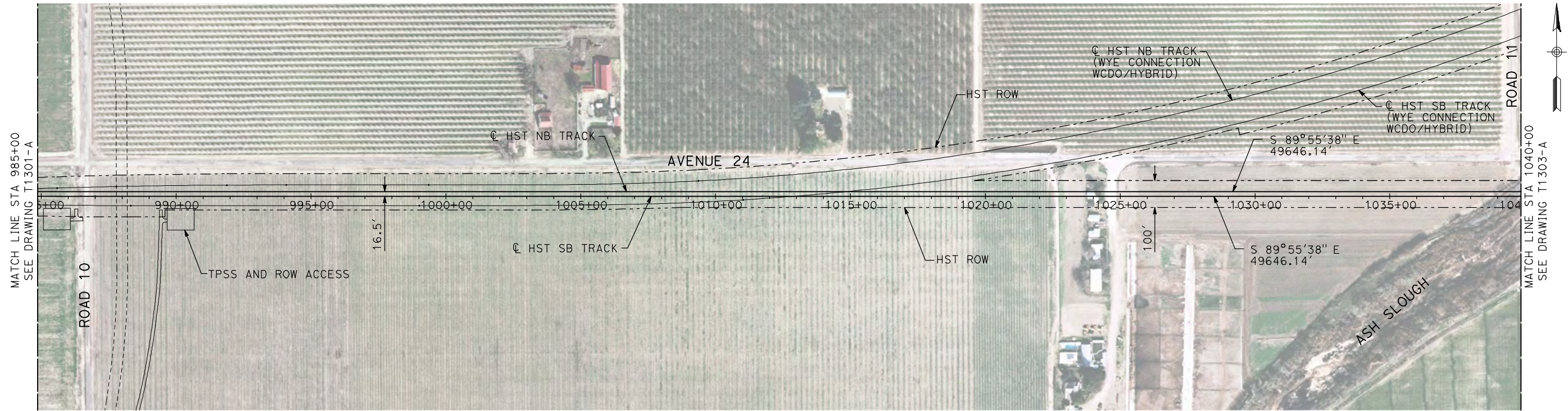


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 930+00 TO STA 985+00

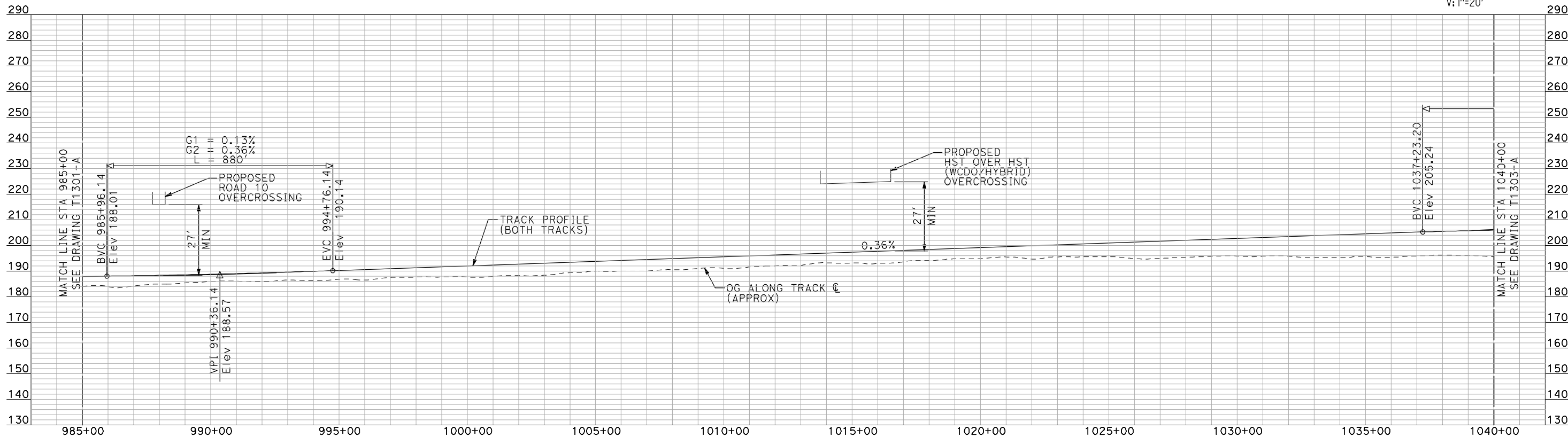
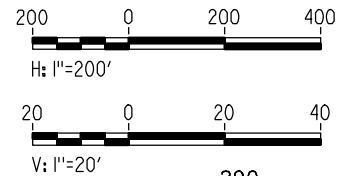
CONTRACT NO. HSR06-007
DRAWING NO. T1301-A
SCALE AS SHOWN
SHEET NO. ### OF ###

7/21/2011 11:29:14 AM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF_AVE 24\MF-T-1302-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL

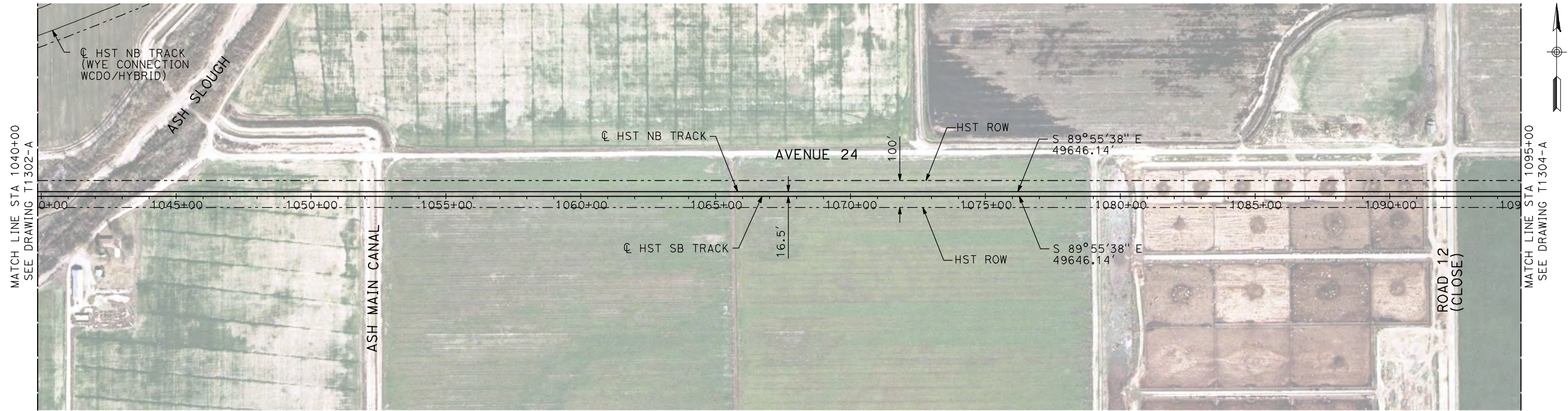


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 985+00 TO STA 1040+00

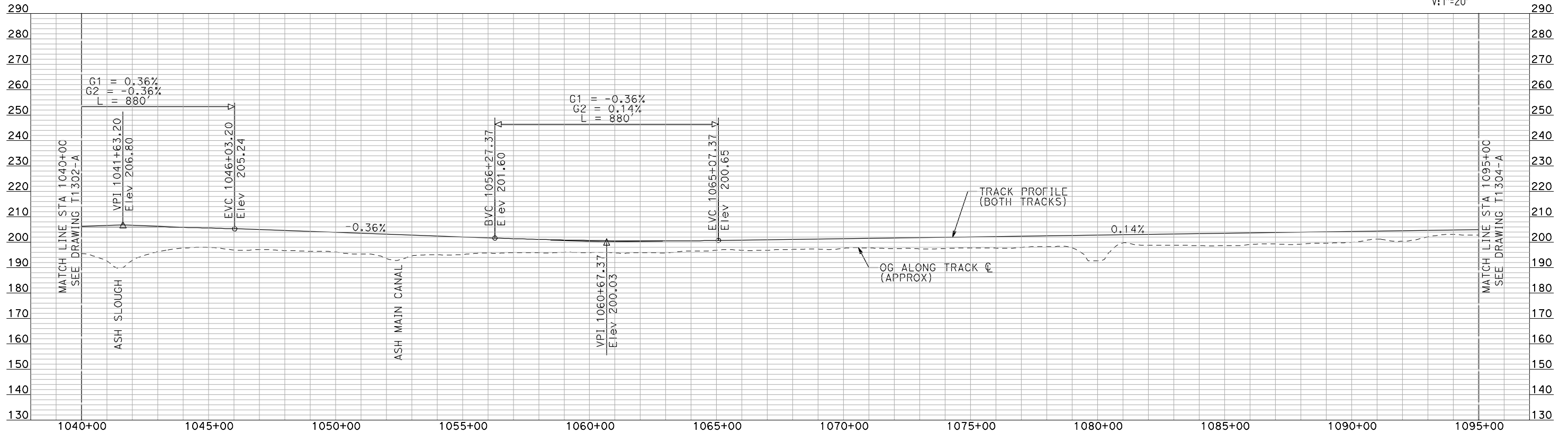
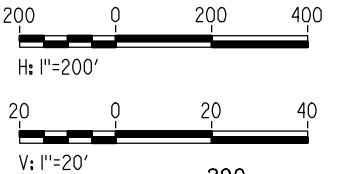
CONTRACT NO. HSR06-007
DRAWING NO. T1302-A
SCALE AS SHOWN
SHEET NO. ### OF ###

7/21/2011 11:29:43 AM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF_AVE 24\MF-T-1303-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL

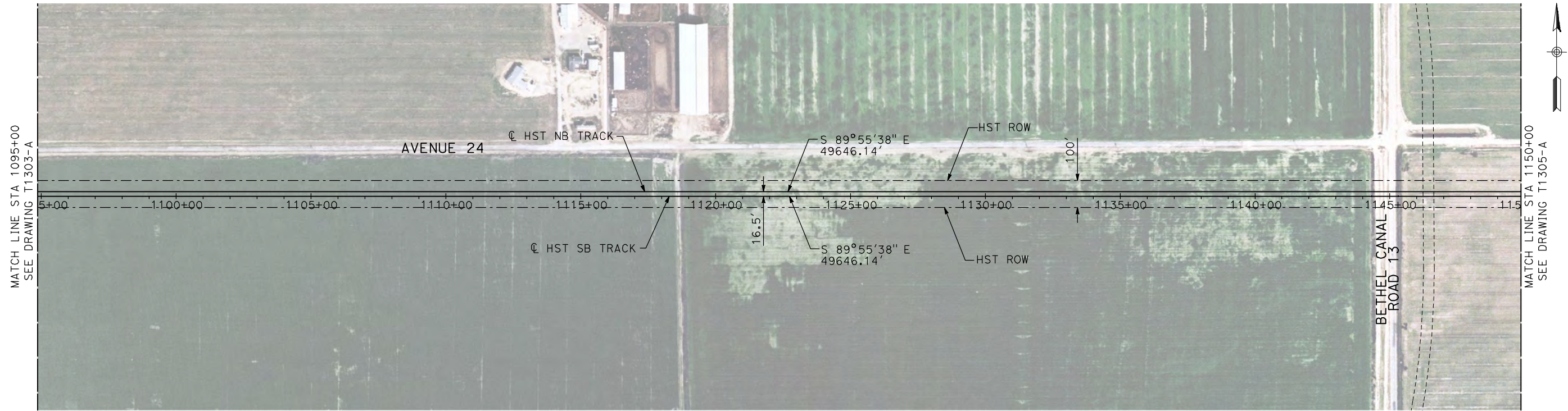


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1040+00 TO STA 1095+00

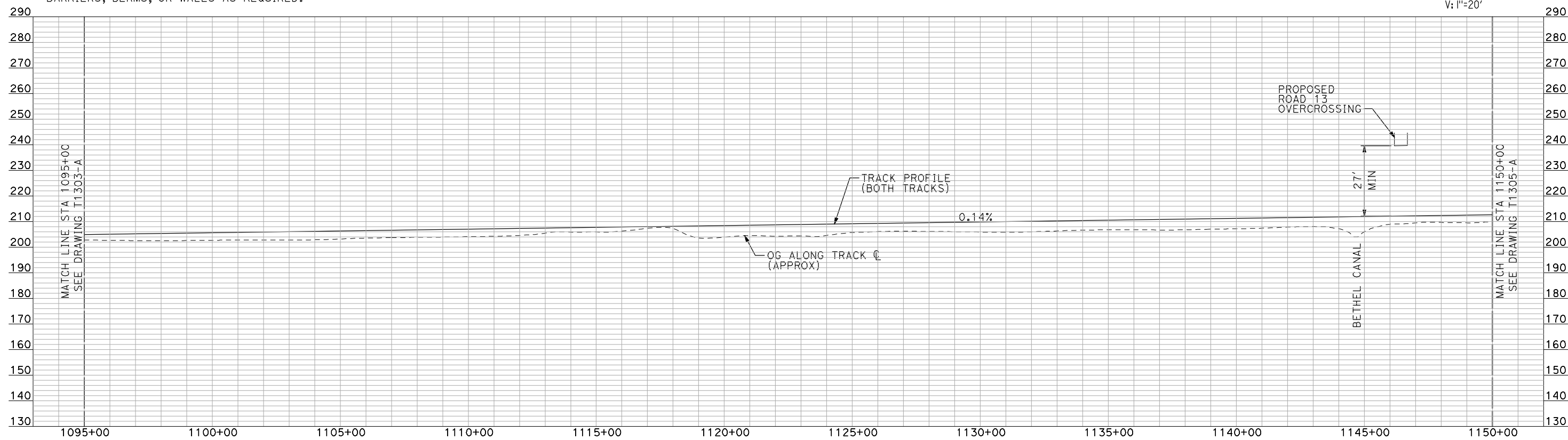
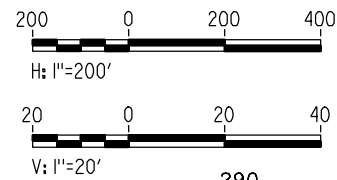
CONTRACT NO. HSR06-007
DRAWING NO. T1303-A
SCALE AS SHOWN
SHEET NO. ### OF ###

7/21/2011 11:30:11 AM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF_AVE 24\MF-T-1304-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

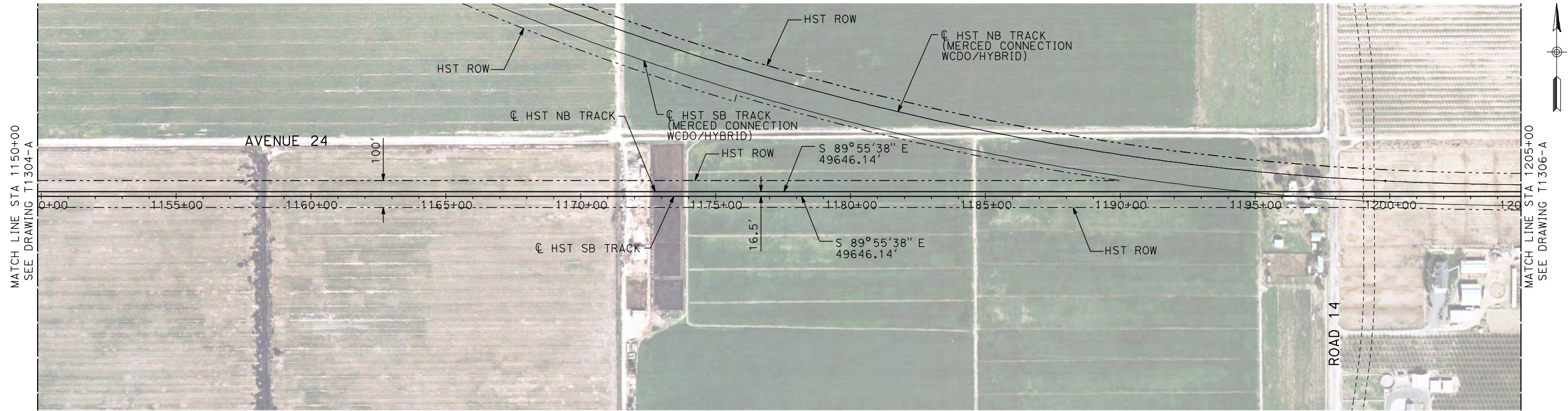


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1095+00 TO STA 1150+00

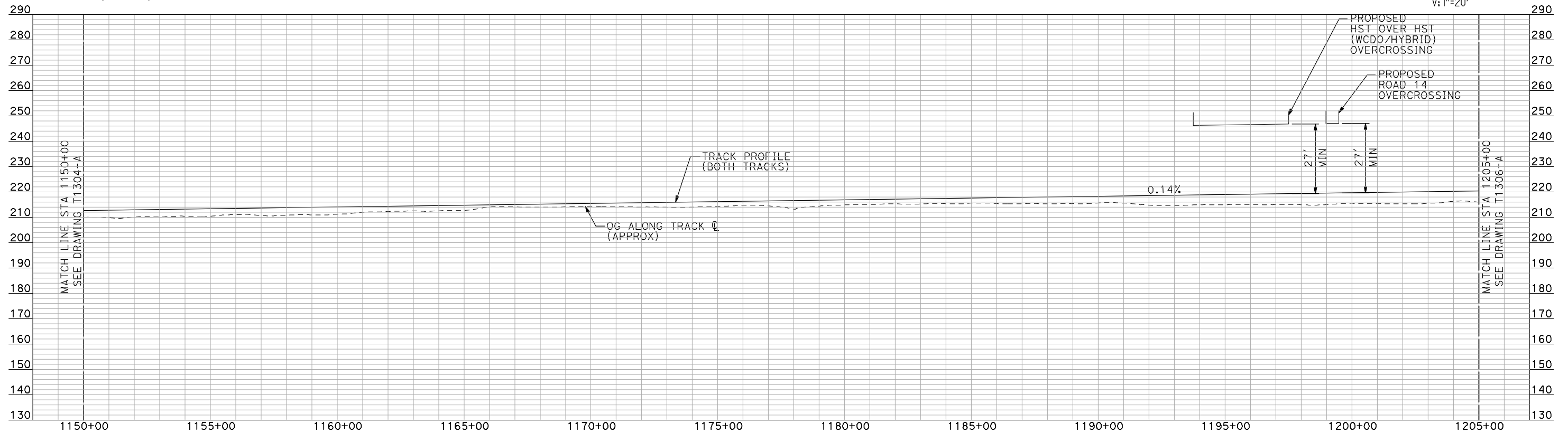
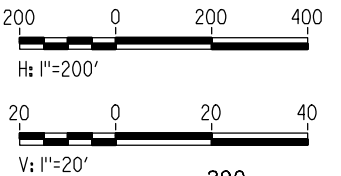
CONTRACT NO. HSR06-007
DRAWING NO. T1304-A
SCALE AS SHOWN
SHEET NO. ### OF ###

7/21/2011 11:30:40 AM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF_AVE 24\MF-T-1305-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

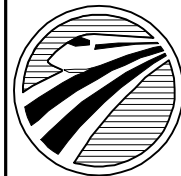
DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL



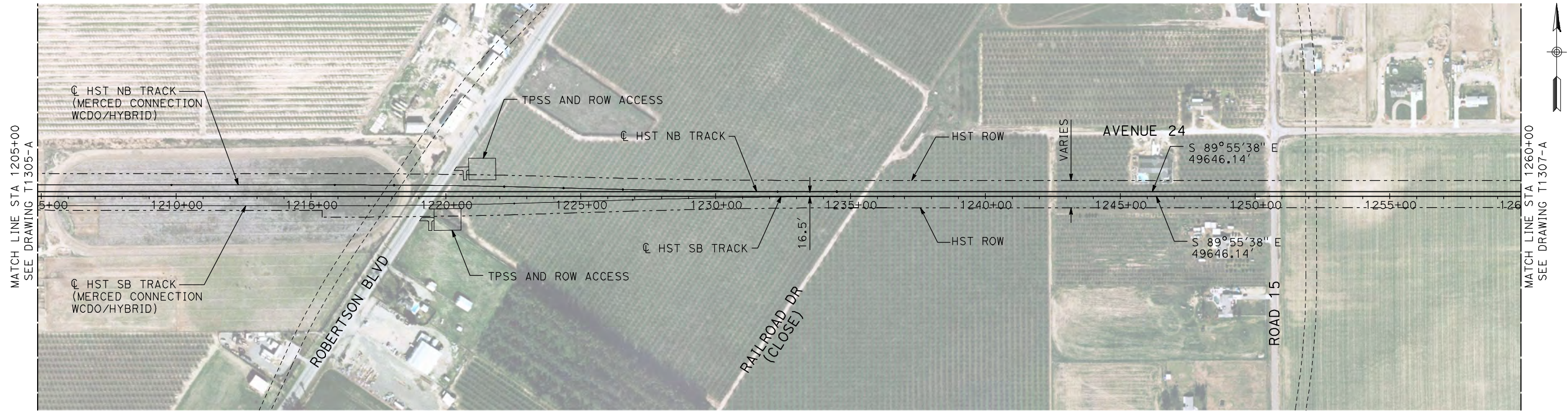
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1150+00 TO STA 1205+00

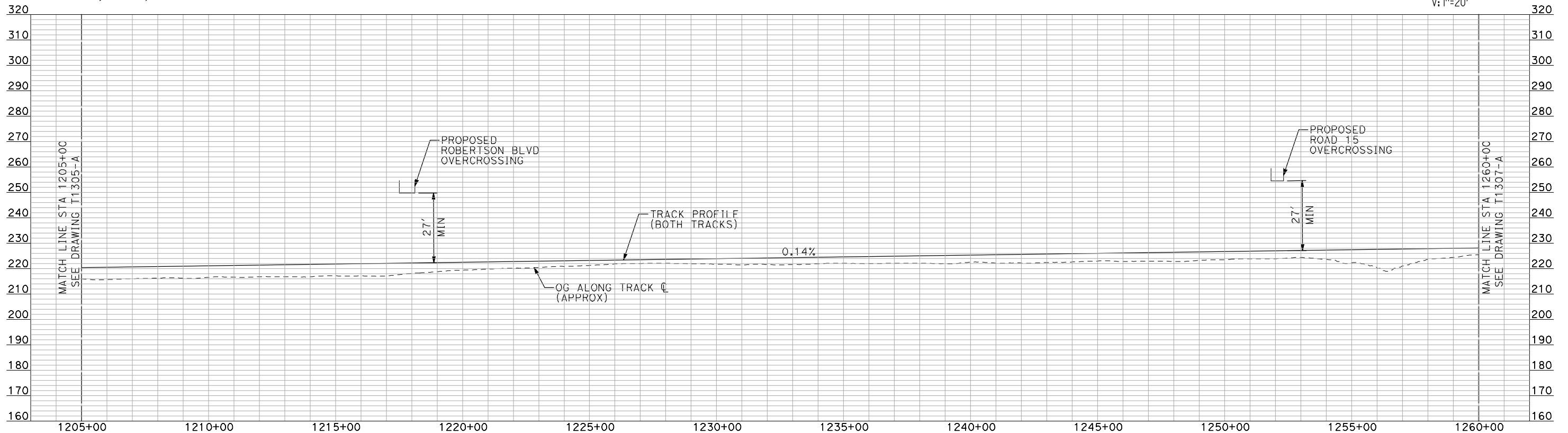
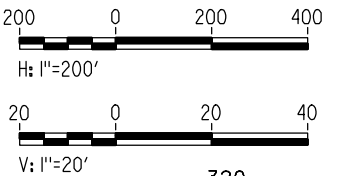
CONTRACT NO. HSR06-007
DRAWING NO. T1305-A
SCALE AS SHOWN
SHEET NO. ### OF ###

7/21/2011 11:31:07 AM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF_AVE 24\MF-T-1306-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

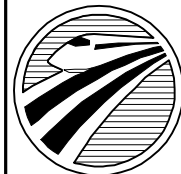
"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



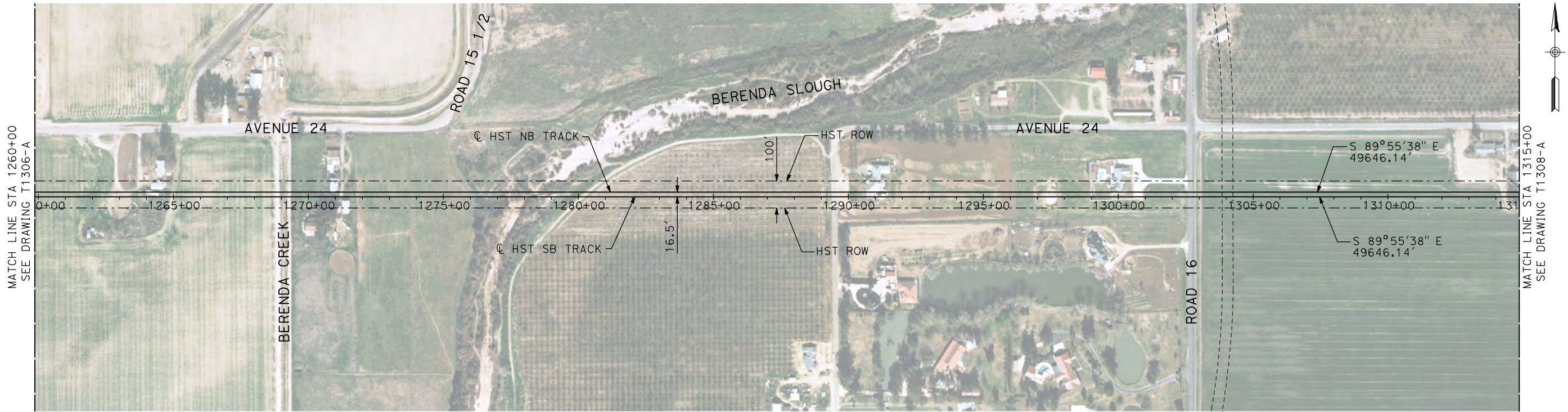
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1205+00 TO STA 1260+00

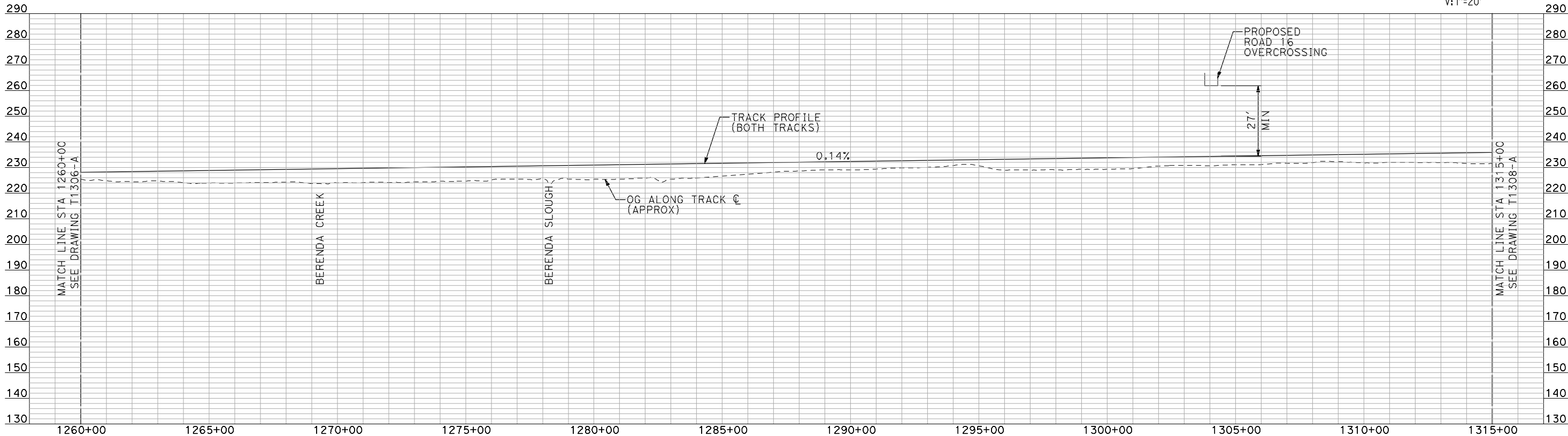
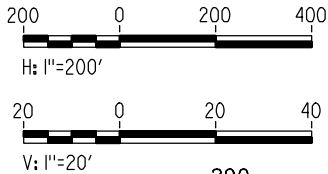
CONTRACT NO. HSR06-007
DRAWING NO. T1306-A
SCALE AS SHOWN
SHEET NO. ### OF ###

7/21/2011 11:31:35 AM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF_AVE 24\MF-T-1307-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

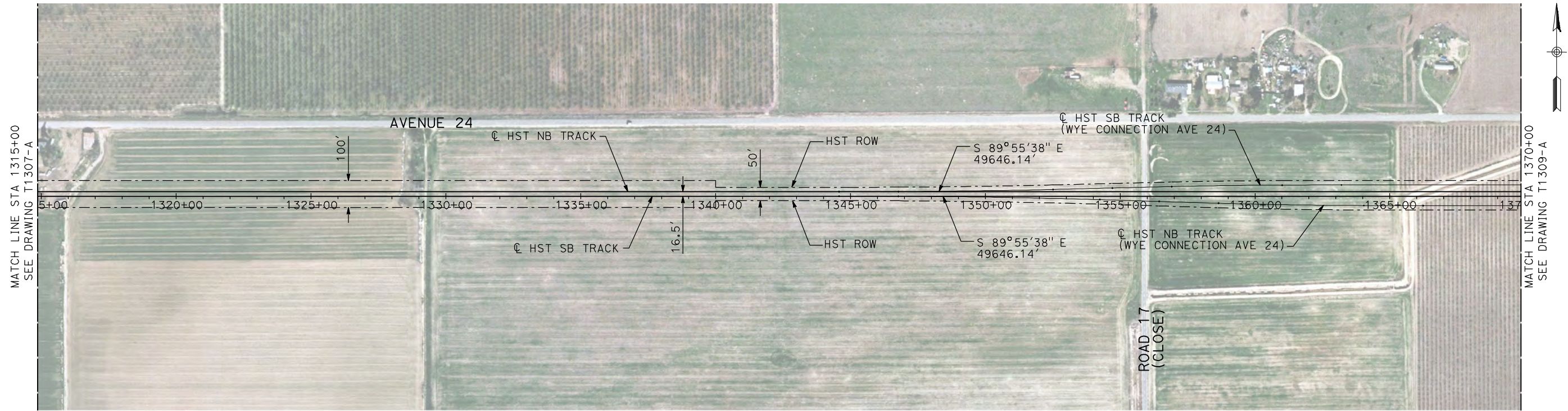


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

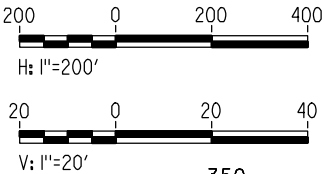
BNSF MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1260+00 TO STA 1315+00

CONTRACT NO. HSR06-007
DRAWING NO. T1307-A
SCALE AS SHOWN
SHEET NO. ### OF ###

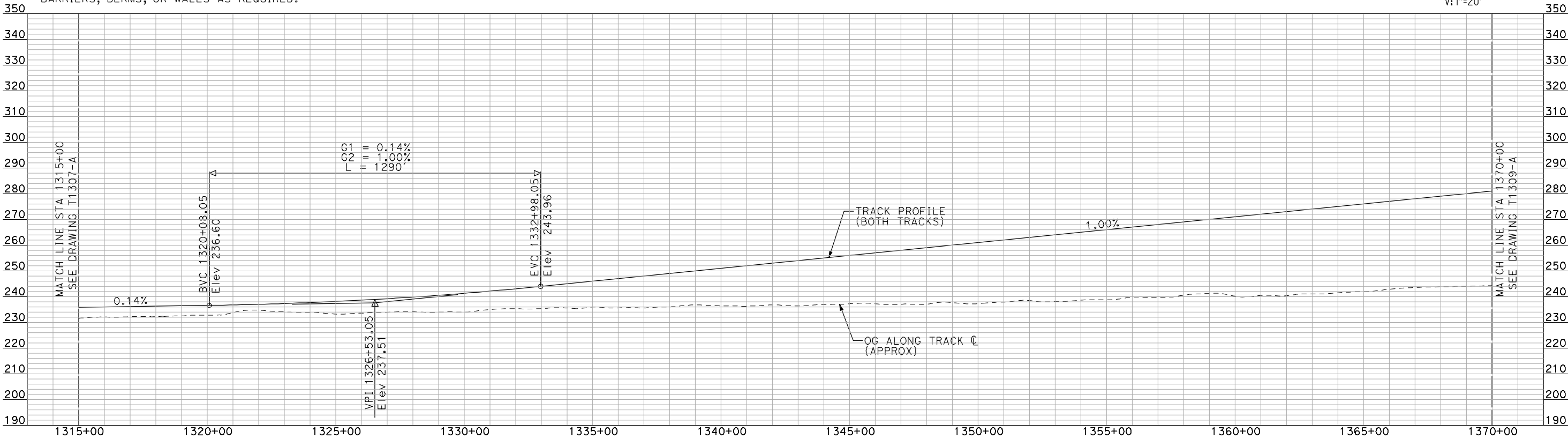
7/21/2011 11:32:03 AM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF_AVE 24\MF-T-1308-A.dgn machadoe



PLAN



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

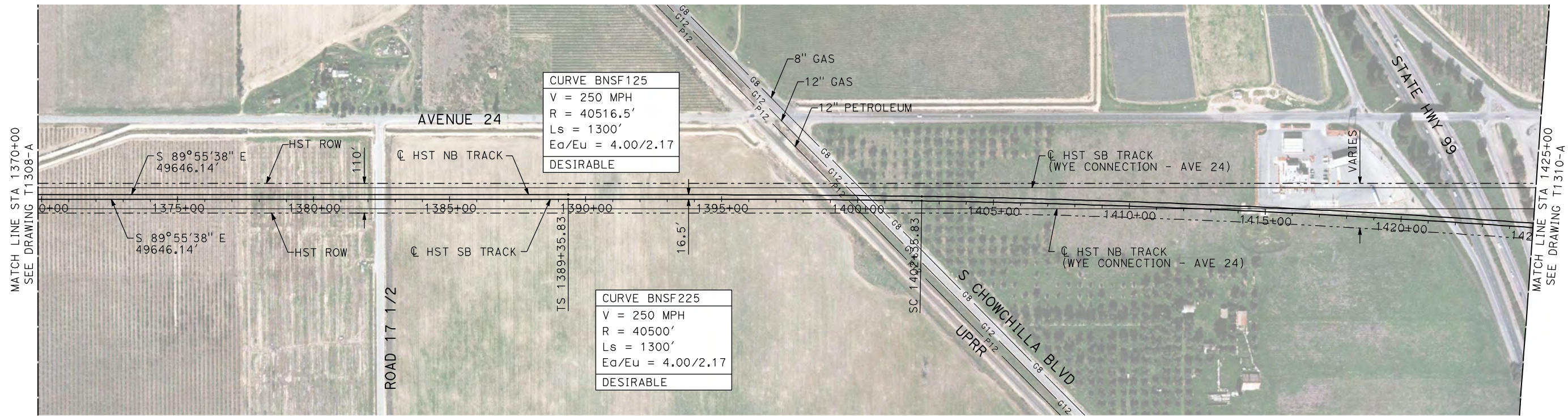
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1315+00 TO STA 1370+00

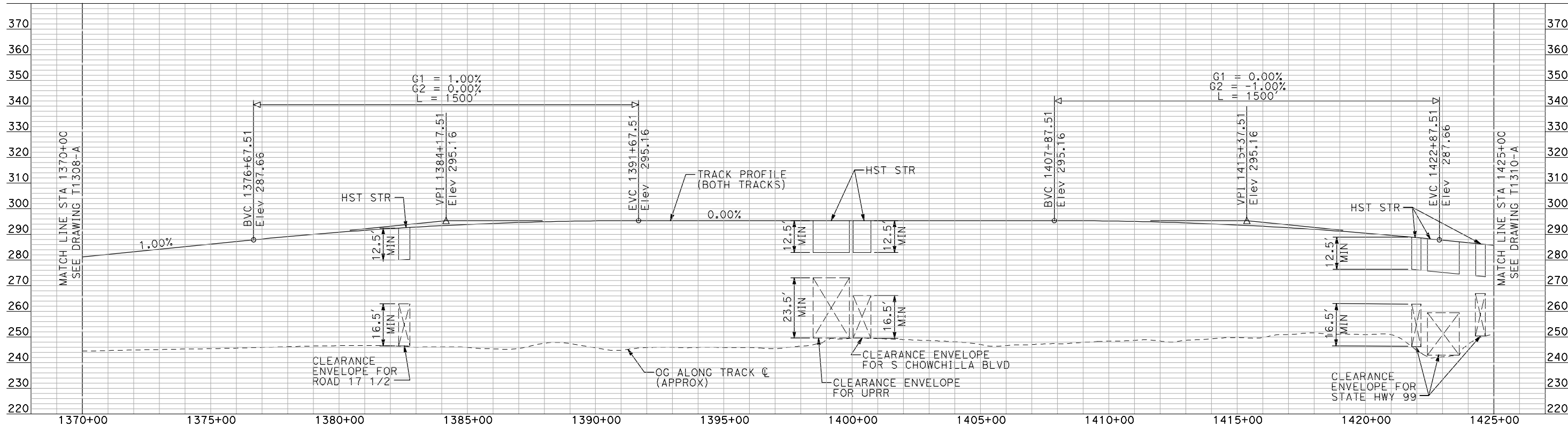
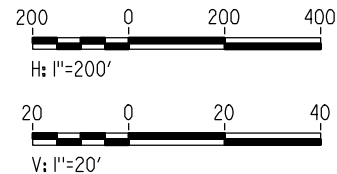
CONTRACT NO.
HSR06-007
DRAWING NO.
T1308-A
SCALE
AS SHOWN
SHEET NO.
OF

7/21/2011 11:32:31 AM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF AVE 24\MF-T-1309-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



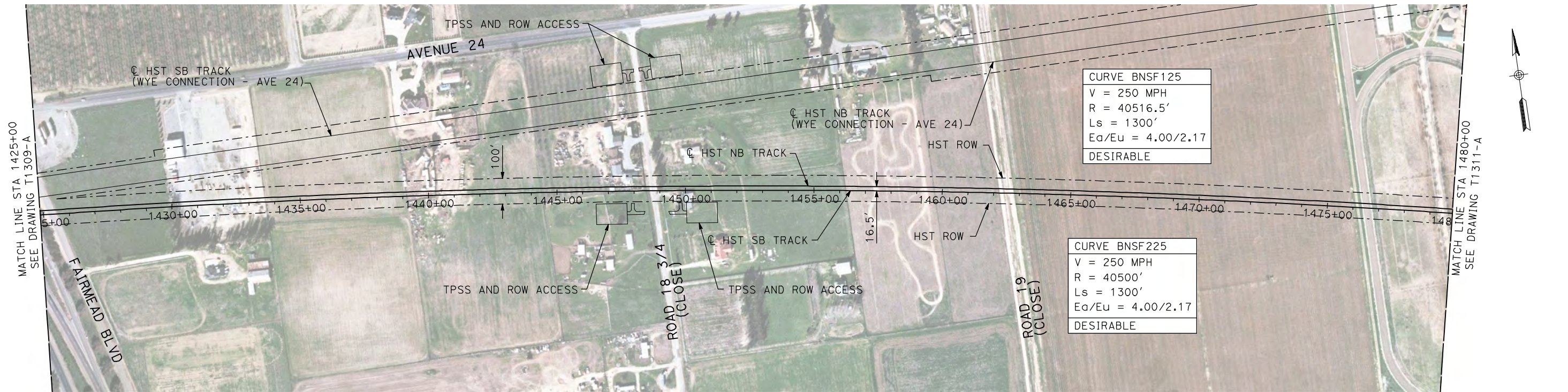
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1370+00 TO STA 1425+00

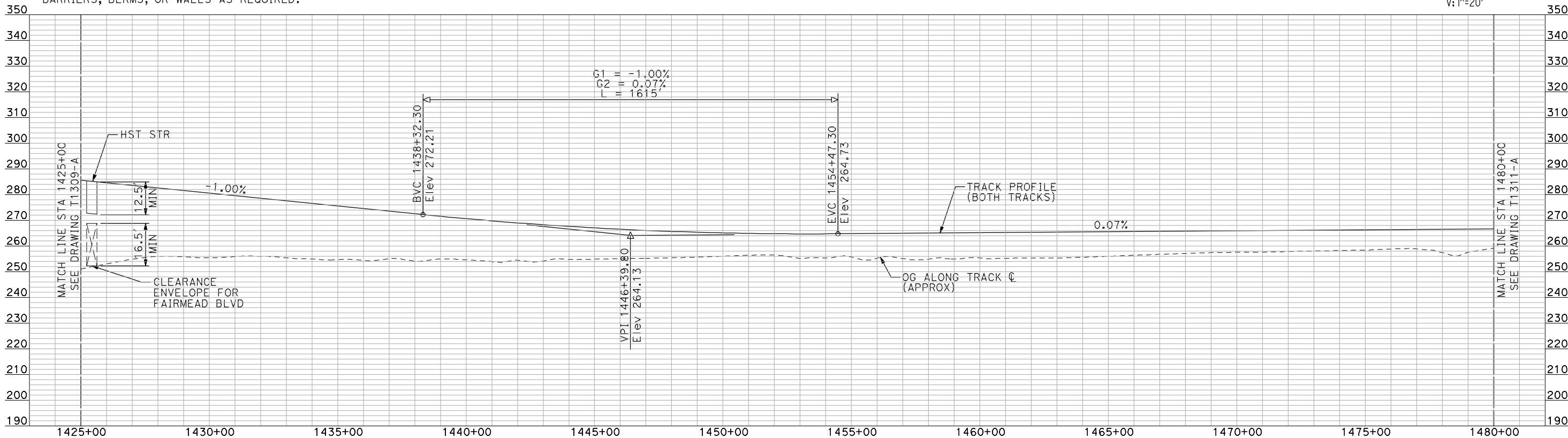
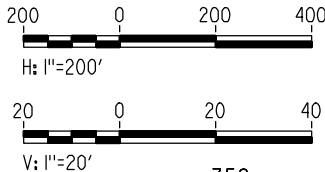
CONTRACT NO. HSR06-007
DRAWING NO. T1309-A
SCALE AS SHOWN
SHEET NO. ### OF ###

7/21/2011 11:33:01 AM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF AVE 24\MF-T-1310-A.dgn
machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

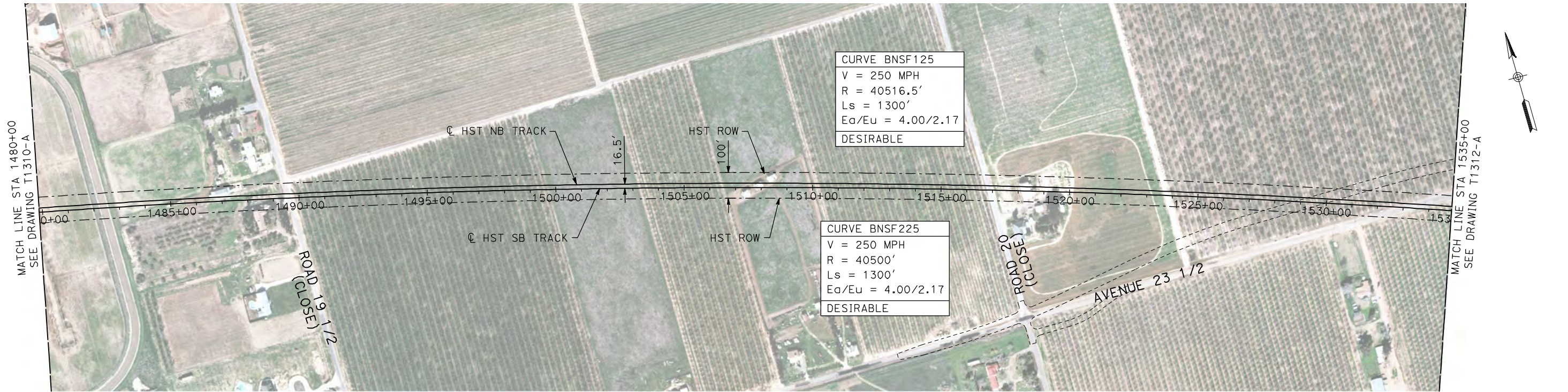
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



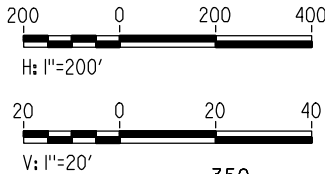
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1425+00 TO STA 1480+00

CONTRACT NO.
HSR06-007
DRAWING NO.
T1310-A
SCALE
AS SHOWN
SHEET NO.
OF

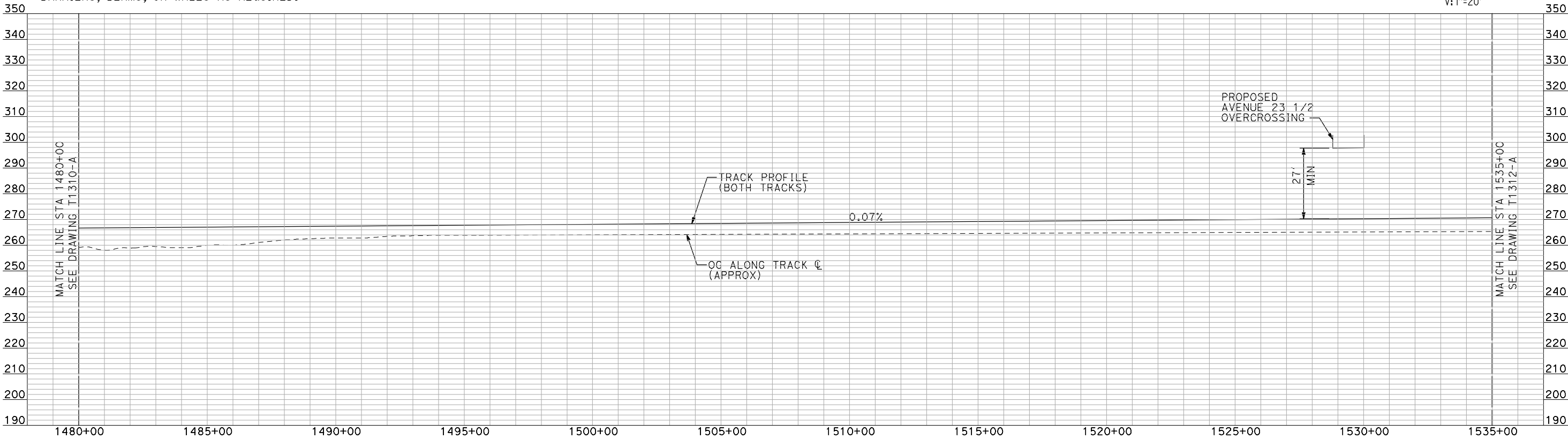
7/21/2011 11:33:31 AM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF_AVE 24\MF-T-1311-A.dgn machadoe



PLAN



- NOTES:
- ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 - TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

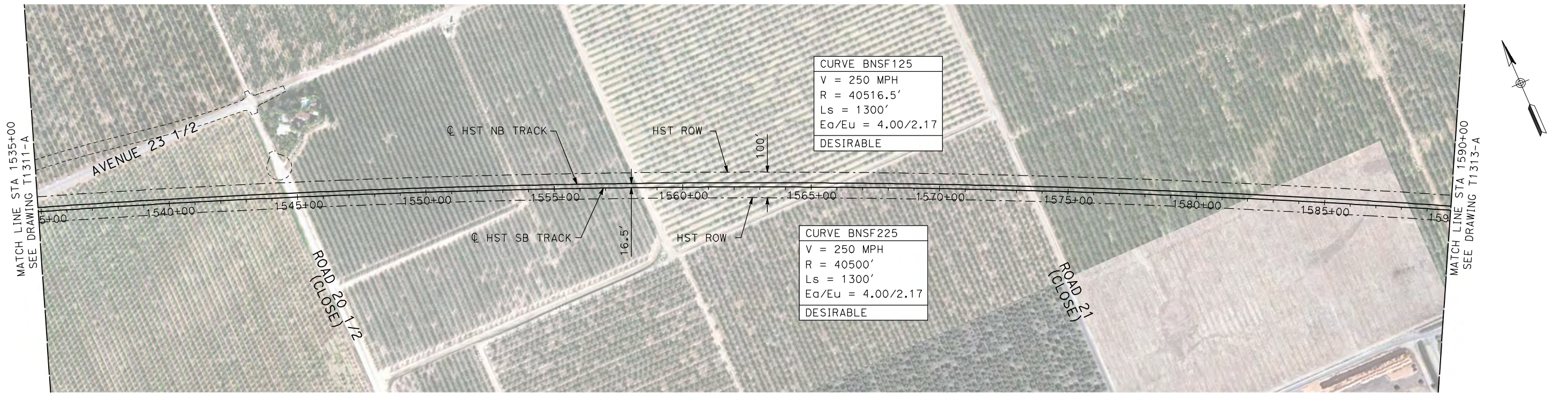


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

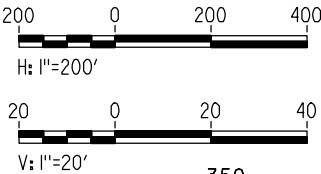
BNSF MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1480+00 TO STA 1535+00

CONTRACT NO. HSR06-007
DRAWING NO. T1311-A
SCALE AS SHOWN
SHEET NO. ### OF ###

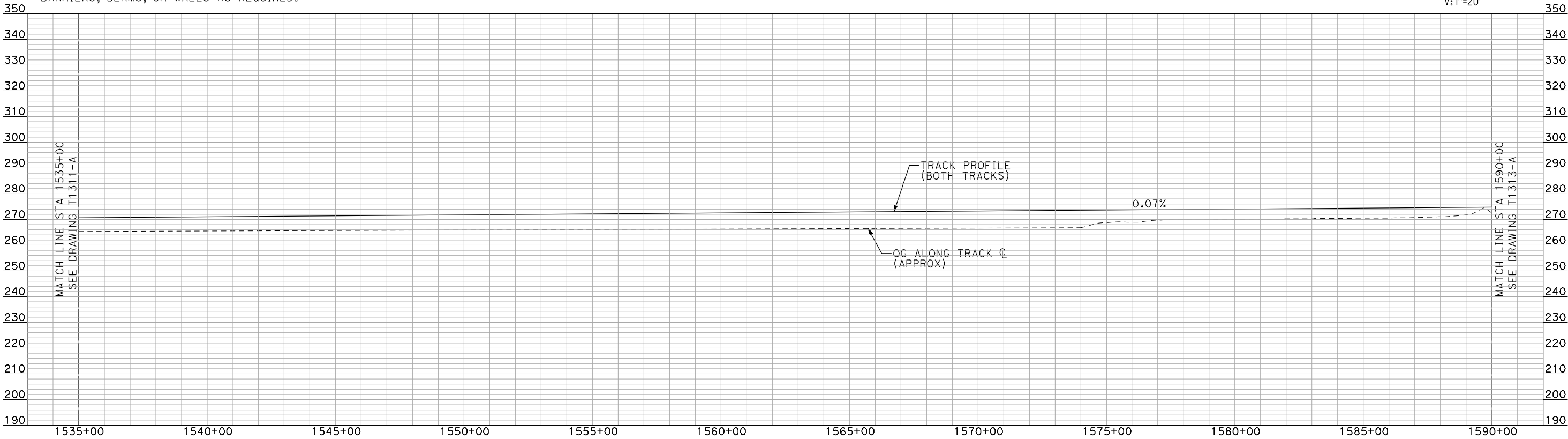
7/21/2011 11:34:03 AM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF_AVE 24\MF-T-1312-A.dgn machadoe



PLAN



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



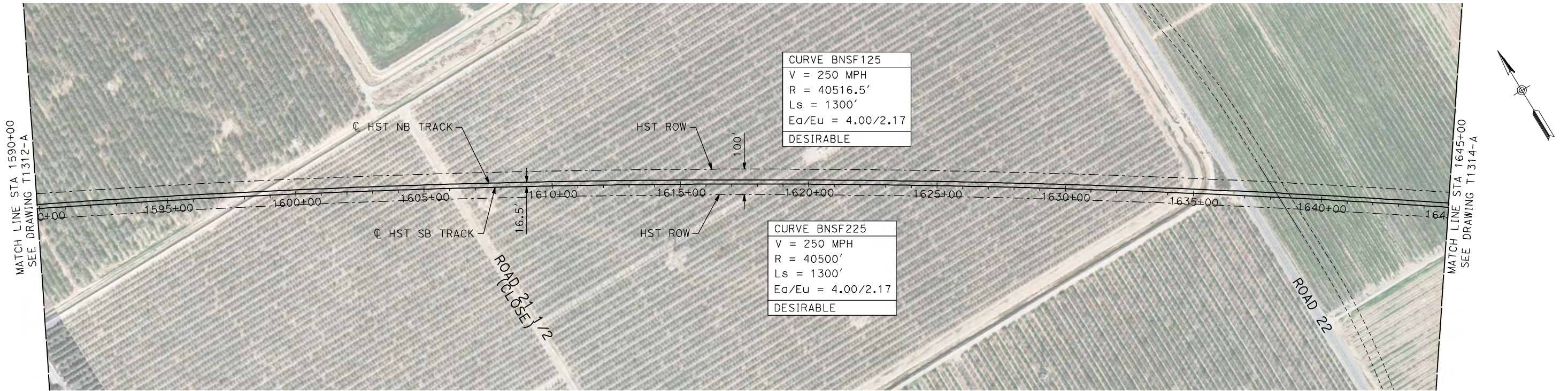
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

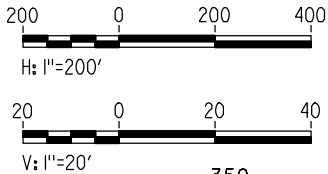
BNSF MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1535+00 TO STA 1590+00

CONTRACT NO. HSR06-007
DRAWING NO. T1312-A
SCALE AS SHOWN
SHEET NO. ### OF ###

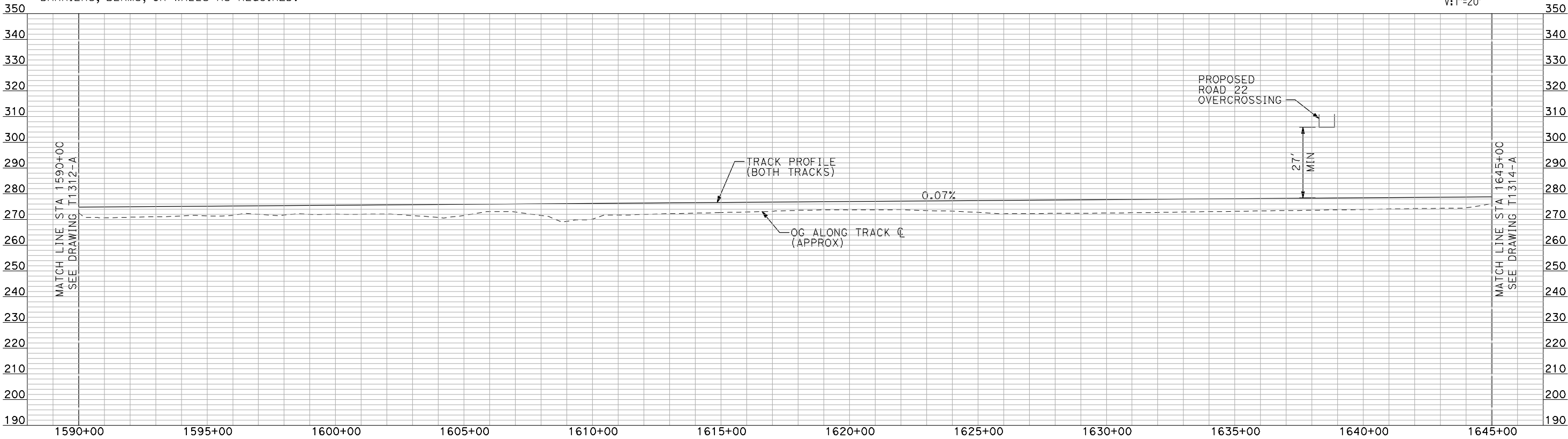
7/21/2011 11:34:36 AM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\bnsf_ave_24\WF-T-1313-A.dgn machadoe



PLAN



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

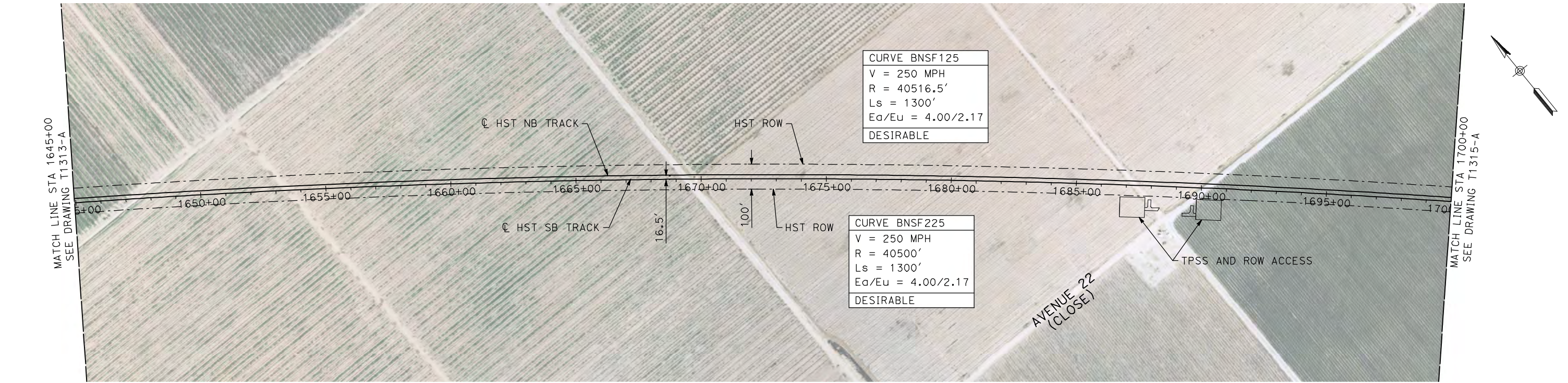


PROFILE

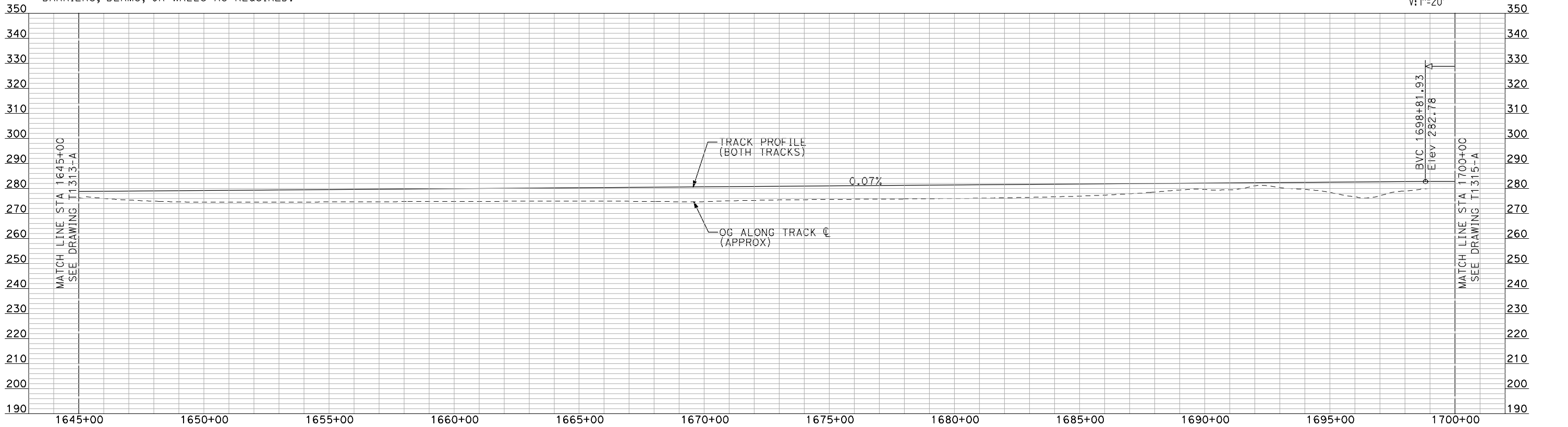
"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

					DESIGNED BY A. SHIELDS	RECORD SET 15% DESIGN SUBMITTAL	AECOM <small>Technical Services, Inc. 2020 L Street, Suite 300 Sacramento, CA 95811</small>		CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO	CONTRACT NO. HSR06-007
					DRAWN BY H. SULLIVAN					DRAWING NO. T1313-A
					CHECKED BY A. BOONE					SCALE AS SHOWN
					IN CHARGE A. BOONE					SHEET NO. ### OF ###
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 07/20/2011	NOT FOR CONSTRUCTION			

7/21/2011 11:35:11 AM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF_AVE 24\MF-T-1314-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

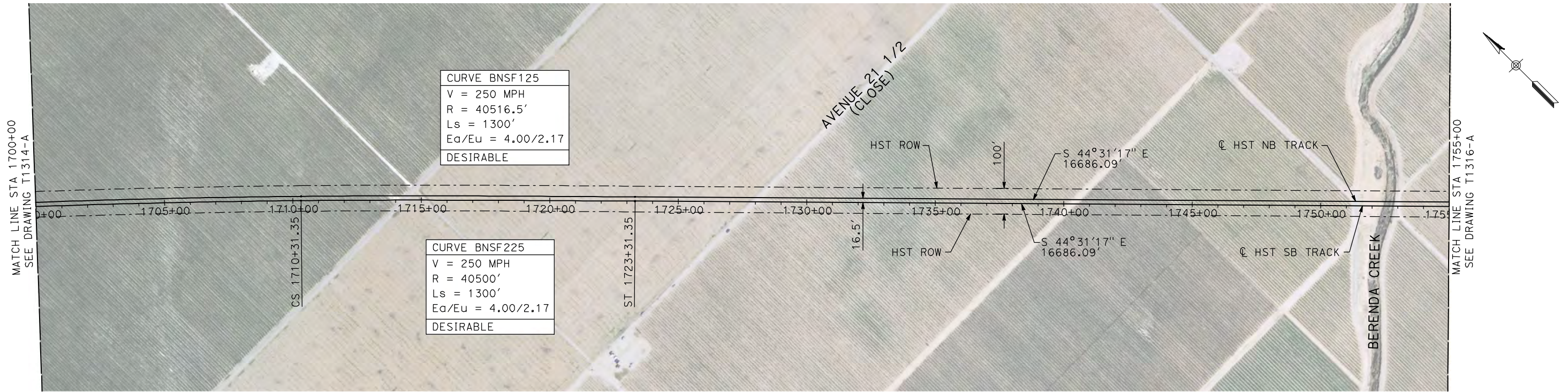
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1645+00 TO STA 1700+00

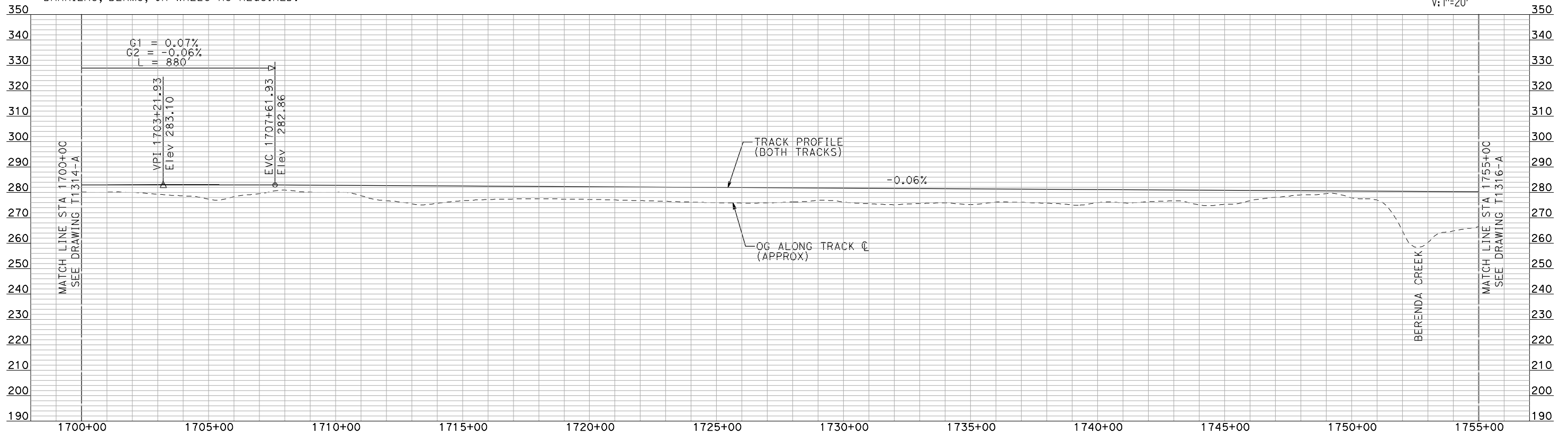
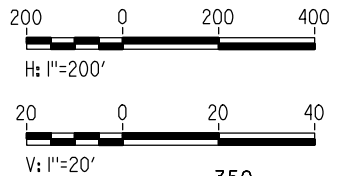
CONTRACT NO.
HSR06-007
DRAWING NO.
T1314-A
SCALE
AS SHOWN
SHEET NO.
OF

7/21/2011 11:35:42 AM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF_AVE 24\MF-T-1315-A.dgn machadoe



- NOTES:
- ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 - TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

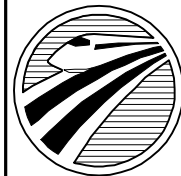
"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



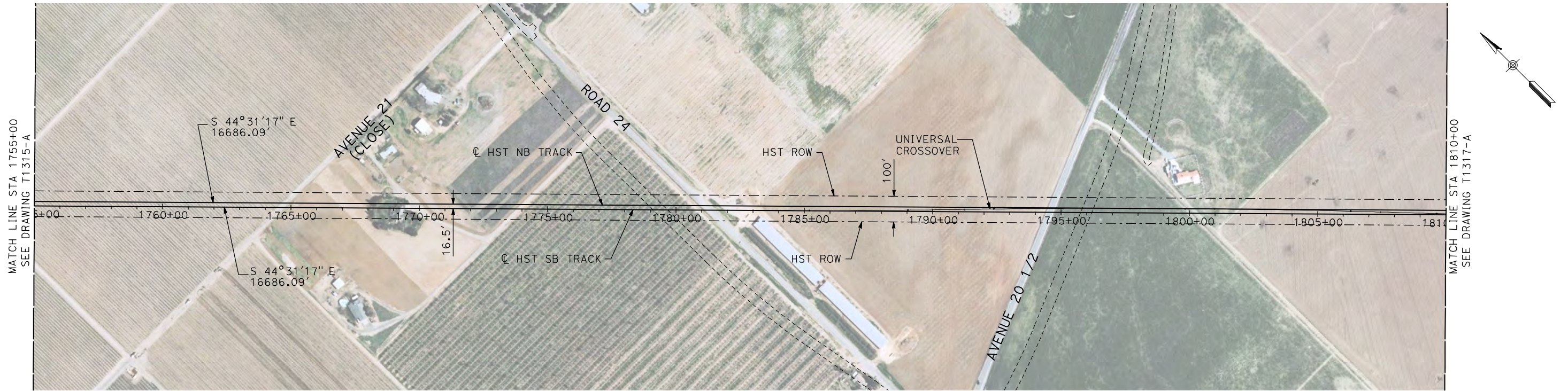
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1700+00 TO STA 1755+00

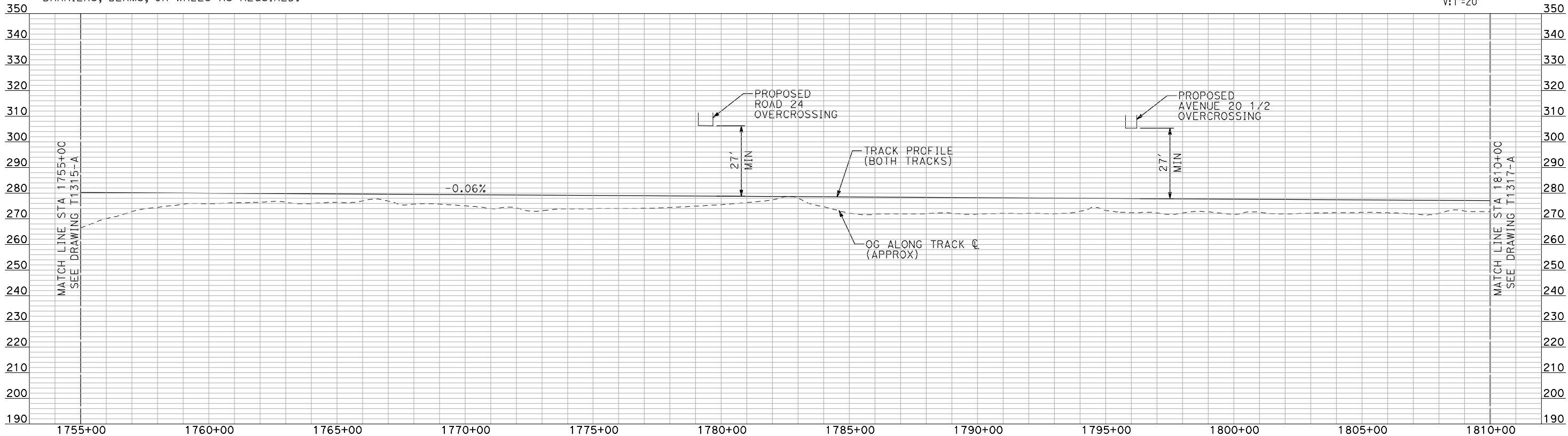
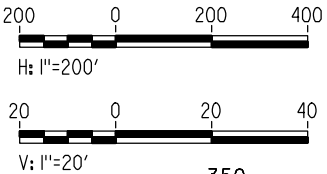
CONTRACT NO. HSR06-007
DRAWING NO. T1315-A
SCALE AS SHOWN
SHEET NO. ### OF ###

7/21/2011 11:36:13 AM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF_AVE 24\MF-T-1316-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

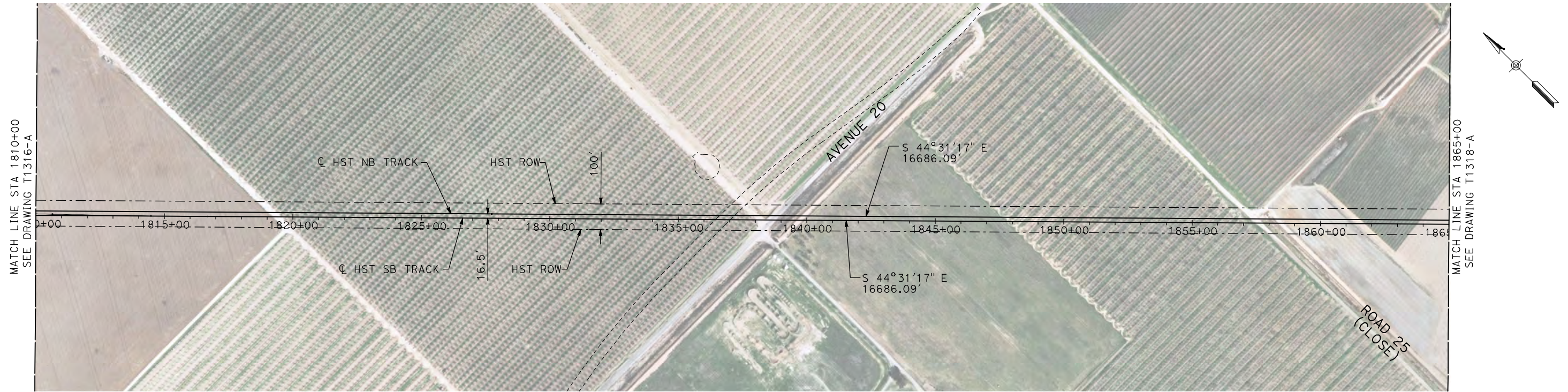


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1755+00 TO STA 1810+00

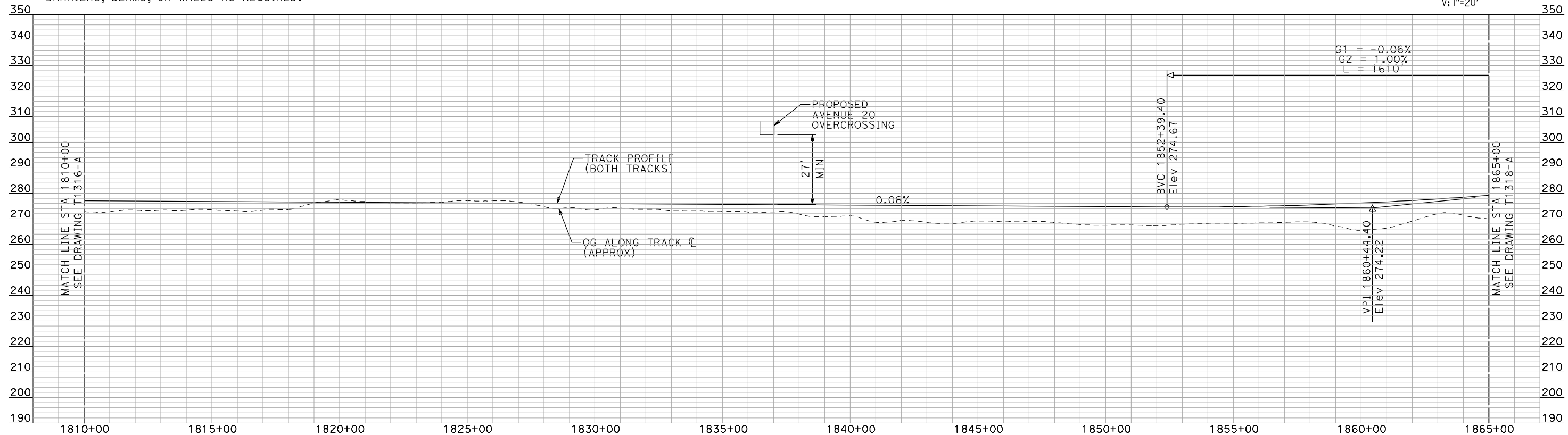
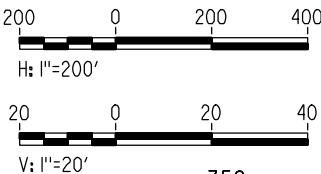
CONTRACT NO. HSR06-007
DRAWING NO. T1316-A
SCALE AS SHOWN
SHEET NO. ### OF ###

7/21/2011 11:36:47 AM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF_AVE 24\MF-T-1317-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL

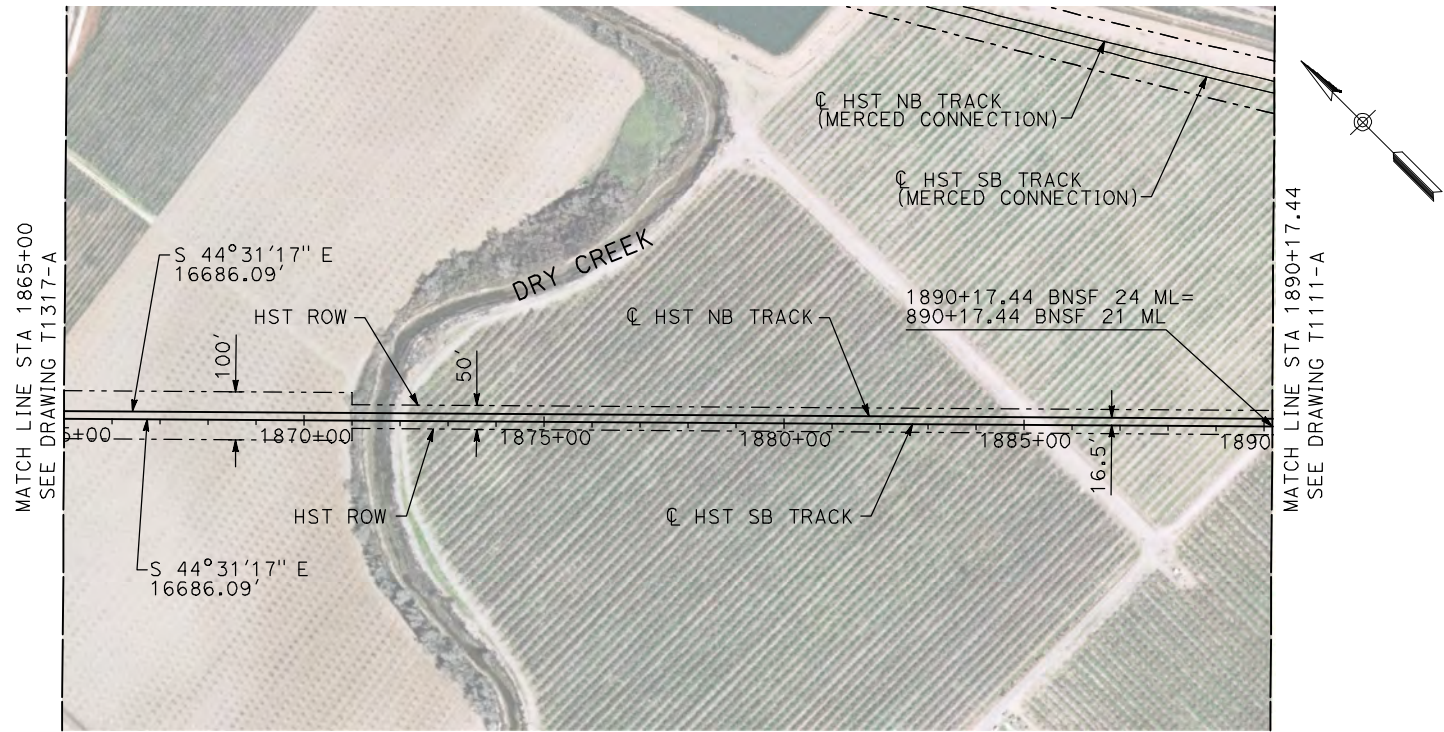


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1810+00 TO STA 1865+00

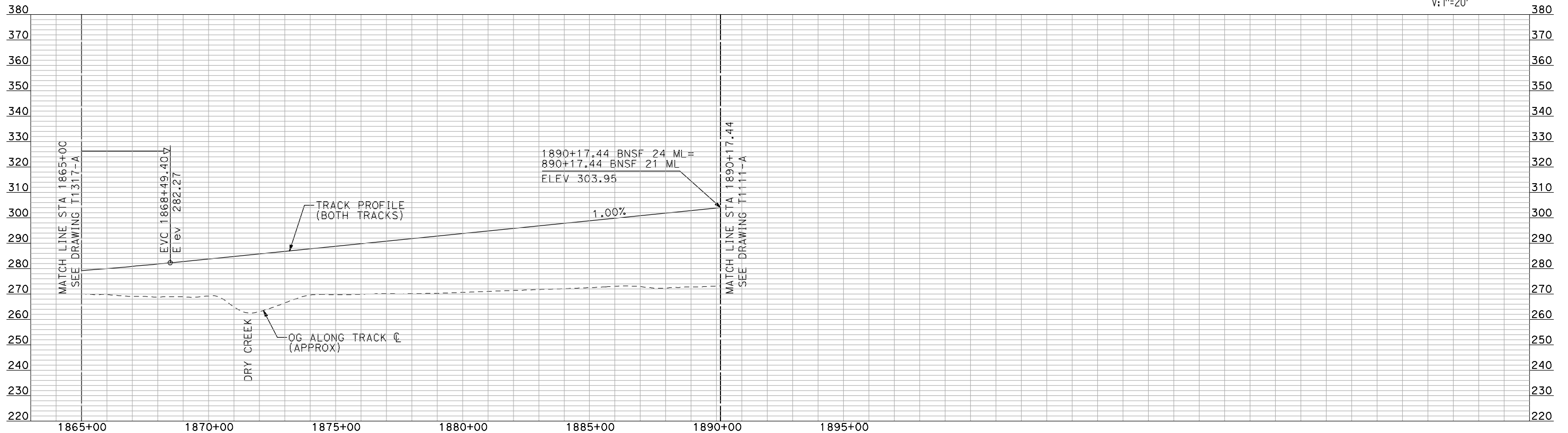
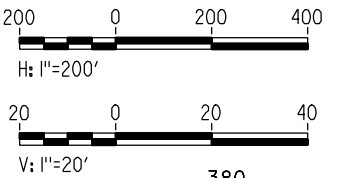
CONTRACT NO. HSR06-007
DRAWING NO. T1317-A
SCALE AS SHOWN
SHEET NO. ### OF ###

7/21/2011 11:31:16 AM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF_AVE 24\MF-T-1318-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

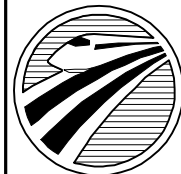
"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

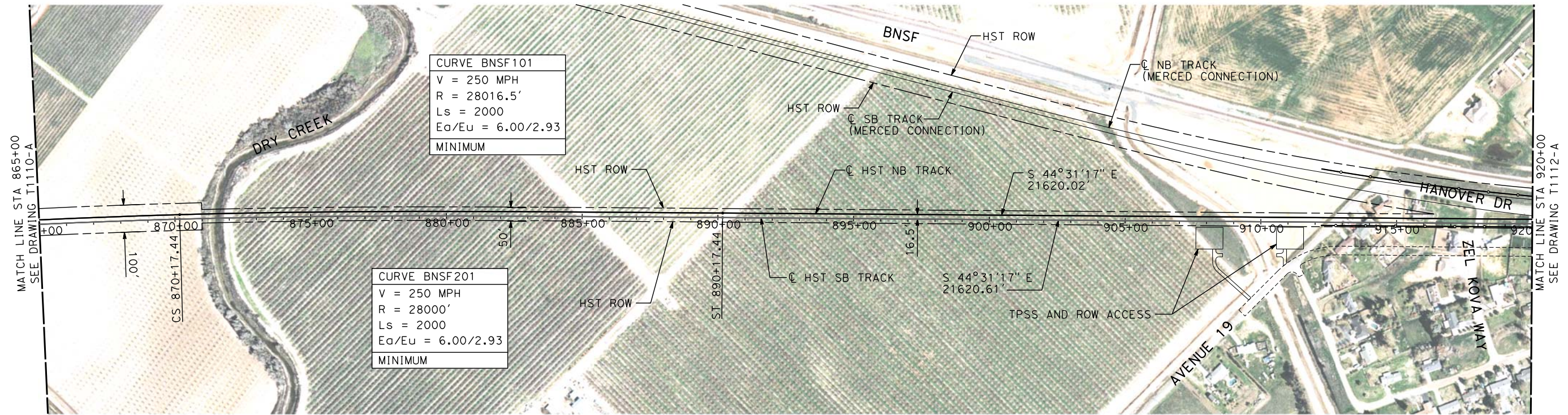
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1865+00 TO STA 1890+17.44

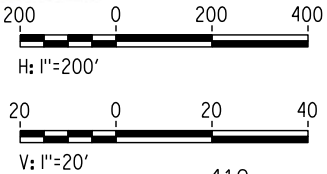
CONTRACT NO. HSR06-007
DRAWING NO. T1318-A
SCALE AS SHOWN
SHEET NO. ### OF ###

3/25/2012 2:43:15 PM \\usscrip001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Sheet\DEIR\BNSF AVE 21\WF-T-1111-A.dgn

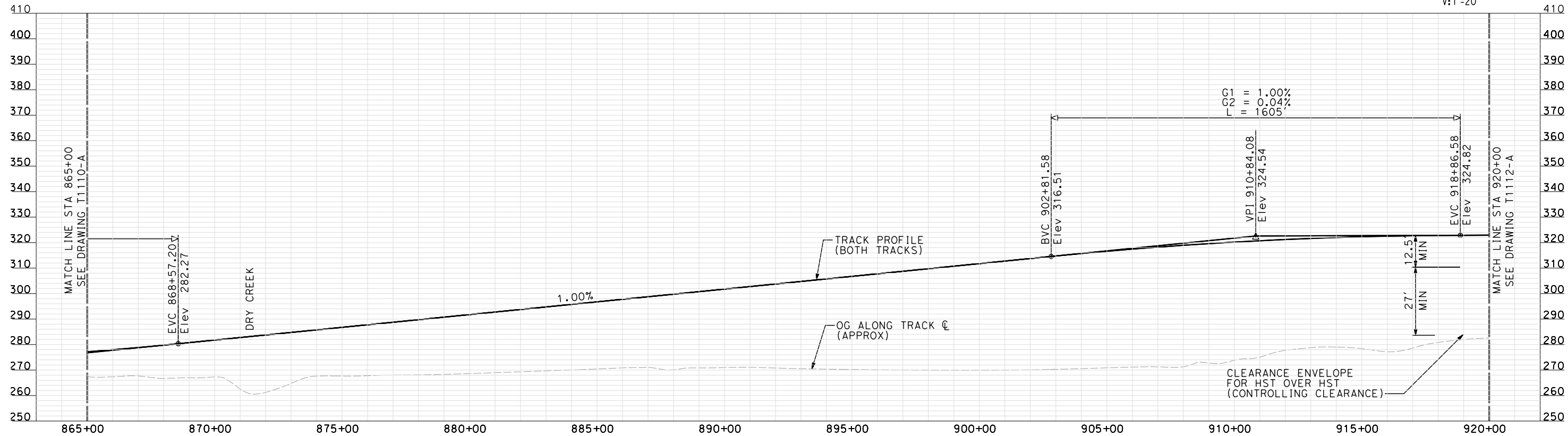
shieldsa



PLAN



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.
 3. FOR CONTROLLING CLEARANCE ENVELOPE SEE T-1112-A.



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

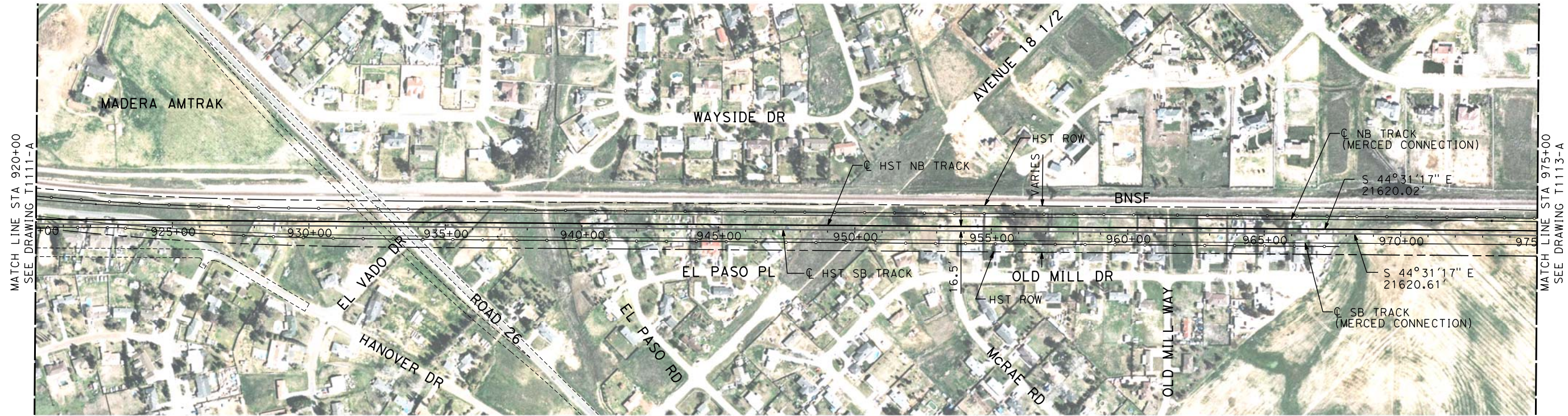
BNSF MAIN LINE

PLAN AND PROFILE
STA 865+00 TO STA 920+00

CONTRACT NO. HSR06-007
DRAWING NO. T1111-A
SCALE AS SHOWN
SHEET NO. ### OF ###

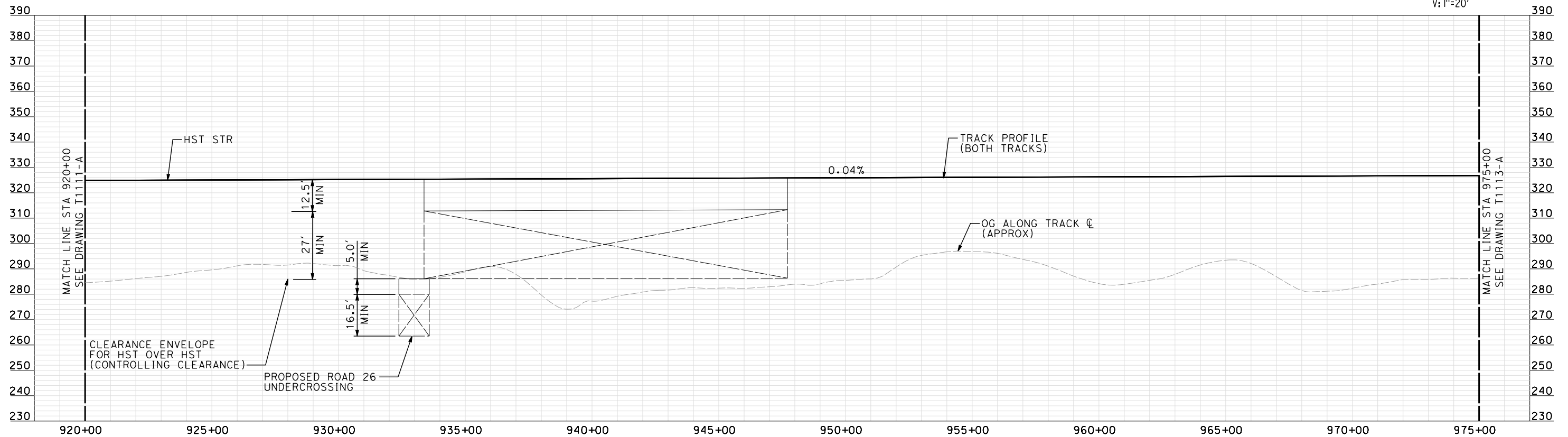
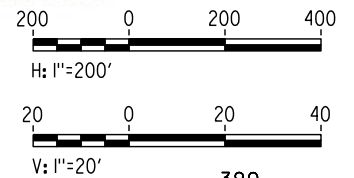
3/25/2012 2:45:30 PM \\usscrifp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Sheet\DEIR\BNSF AVE 21\WF-T-1112-A.dgn

shieldsa



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.
 3. FOR CONTROLLING CLEARANCE ENVELOPE SEE T-1112-A.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

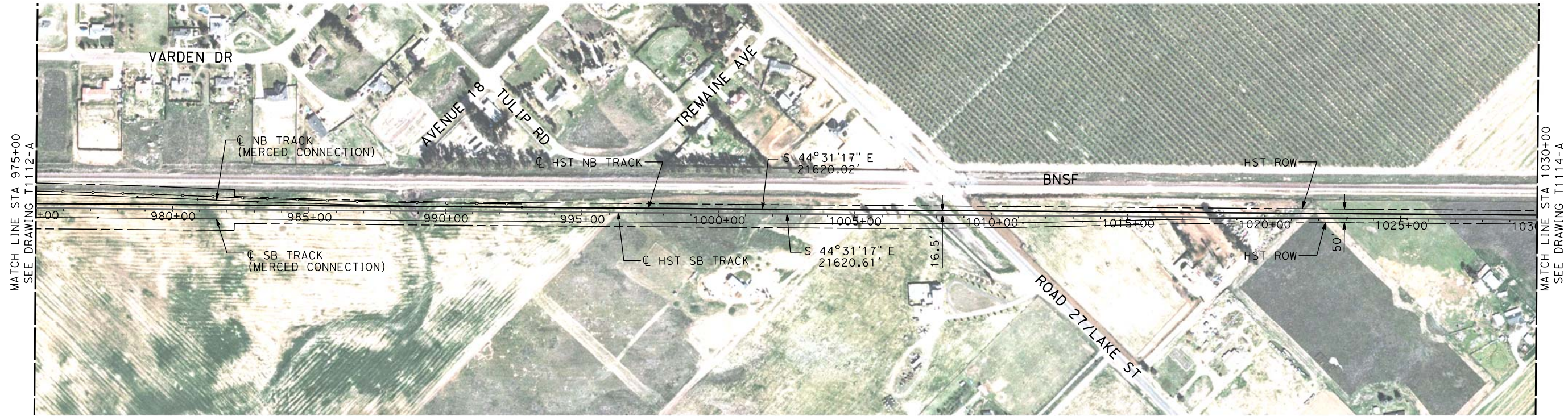
BNSF MAIN LINE

PLAN AND PROFILE
STA 920+00 TO STA 975+00

CONTRACT NO. HSR06-007
DRAWING NO. T1112-A
SCALE AS SHOWN
SHEET NO. ### OF ###

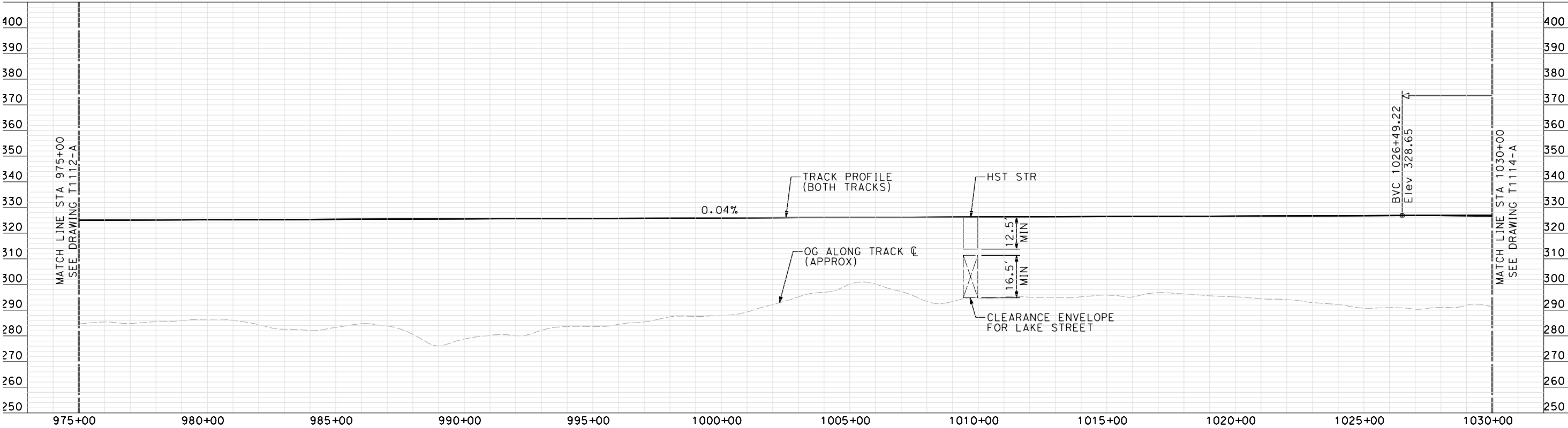
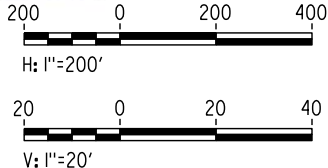
3/25/2012 2:47:30 PM \\usscrifp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Sheet\DEIR\BNSF AVE 21\WF-T-1113-A.dgn

shieldsa



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.
 3. FOR CONTROLLING CLEARANCE ENVELOPE, SEE T-1112-A.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

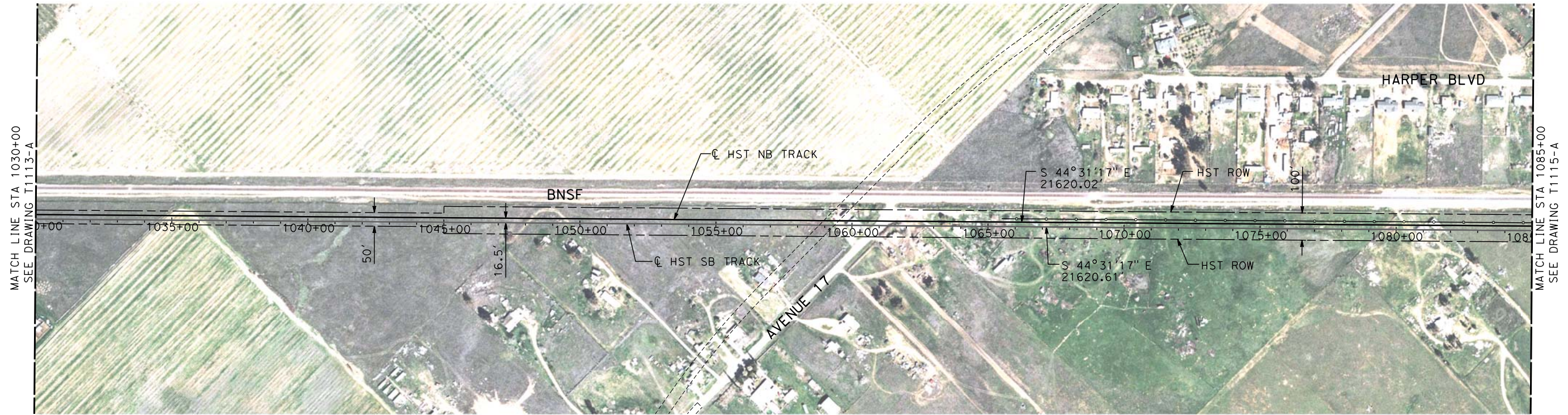
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE

PLAN AND PROFILE
STA 975+00 TO STA 1030+00

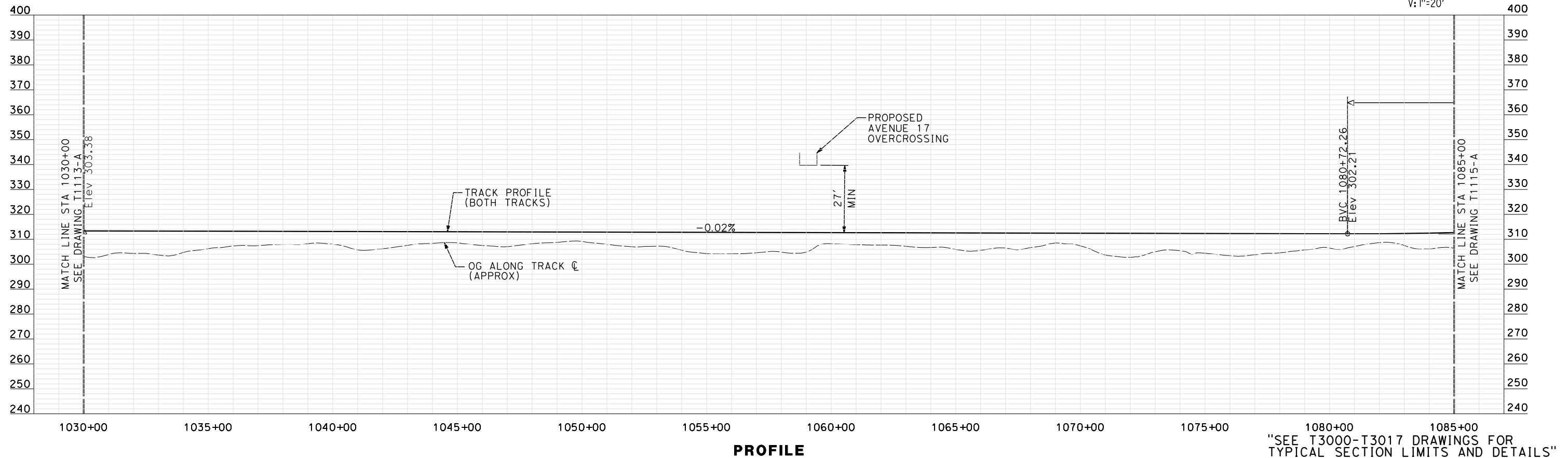
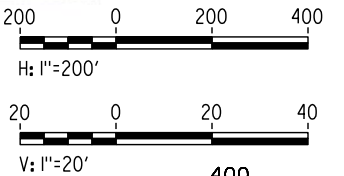
CONTRACT NO. HSR06-007
DRAWING NO. T1113-A
SCALE AS SHOWN
SHEET NO. ### OF ###

3/25/2012 2:52:06 PM \\usscrifp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Sheet\DEIR\BNSF AVE 21\WF-T-1114-A.dgn shieldsa



NOTE:
ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES
BASED ON RECORD DRAWINGS AND ARE SHOWN FOR
INFORMATIONAL PURPOSES ONLY.

PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			SR 145 REDESIGN

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

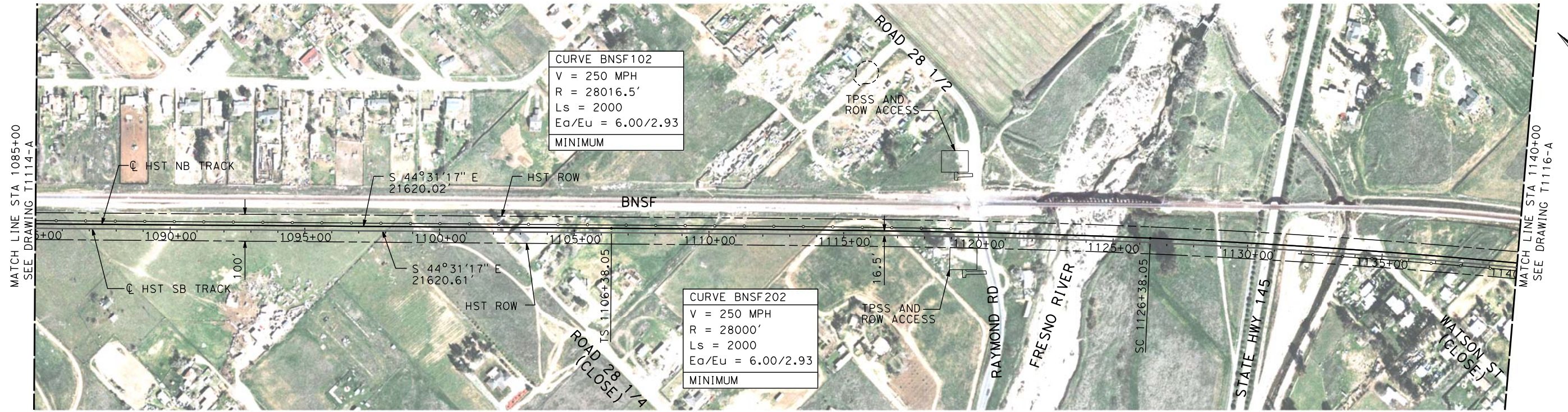
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAINLINE

PLAN AND PROFILE
STA 1030+00 TO STA 1085+00

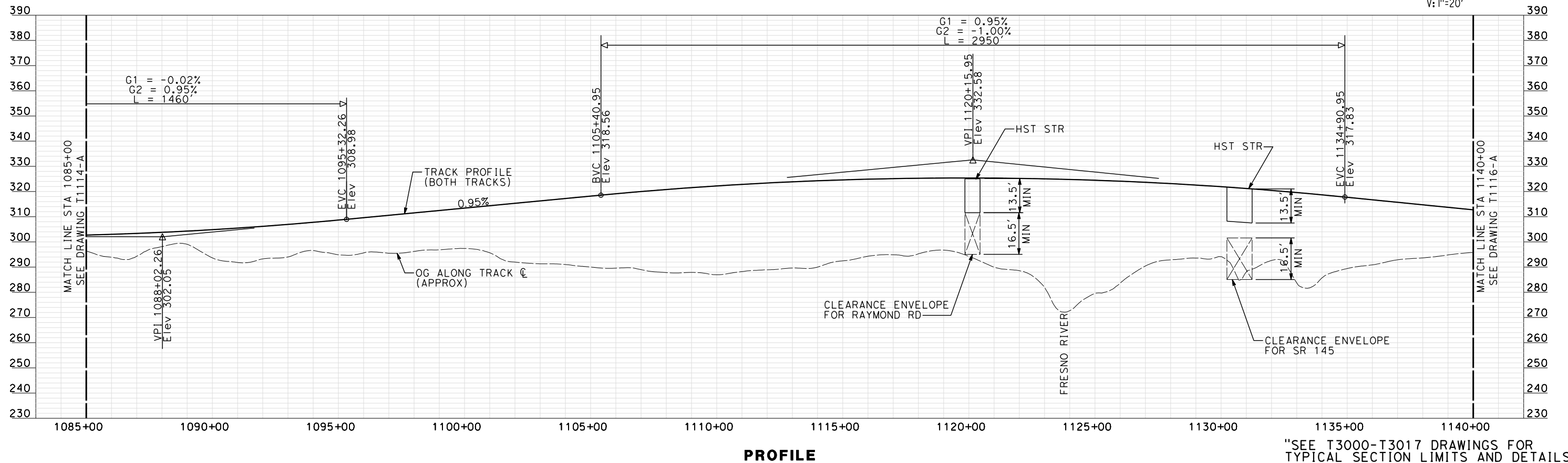
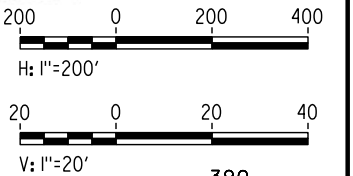
CONTRACT NO. HSR06-007
DRAWING NO. T1114-A
SCALE AS SHOWN
SHEET NO. ### OF ###

3/25/2012 2:56:23 PM \\usscrip001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Sheet\DEIR\BNSF AVE 21\WF-T-1115-A.dgn



NOTE:
ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES
BASED ON RECORD DRAWINGS AND ARE SHOWN FOR
INFORMATIONAL PURPOSES ONLY.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			SR 145 REDESIGN

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

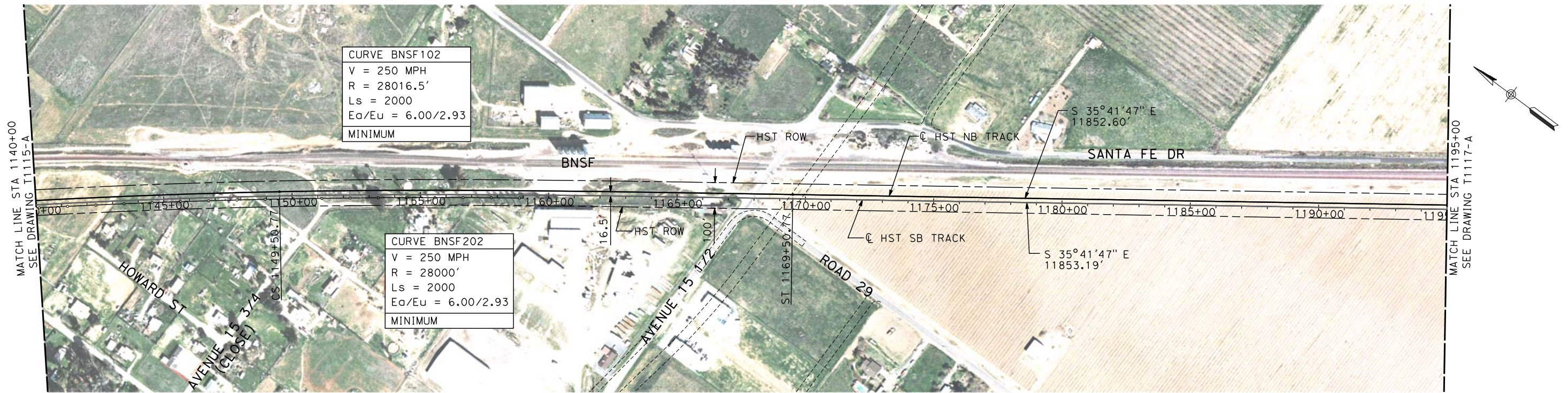
BNSF MAIN LINE

PLAN AND PROFILE
STA 1085+00 TO STA 1140+00

CONTRACT NO. HSR06-007
DRAWING NO. T1115-A
SCALE AS SHOWN
SHEET NO. ### OF ###

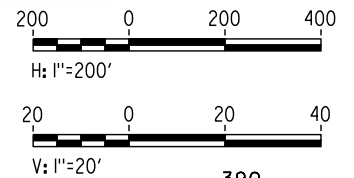
3/25/2012 2:58:27 PM \\usscrlf001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Sheet\DEIR\BNSF AVE 21\WF-T-1116-A.dgn

shieldsa



NOTE:
ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES
BASED ON RECORD DRAWINGS AND ARE SHOWN FOR
INFORMATIONAL PURPOSES ONLY.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT / SR 145 REDESIGN

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



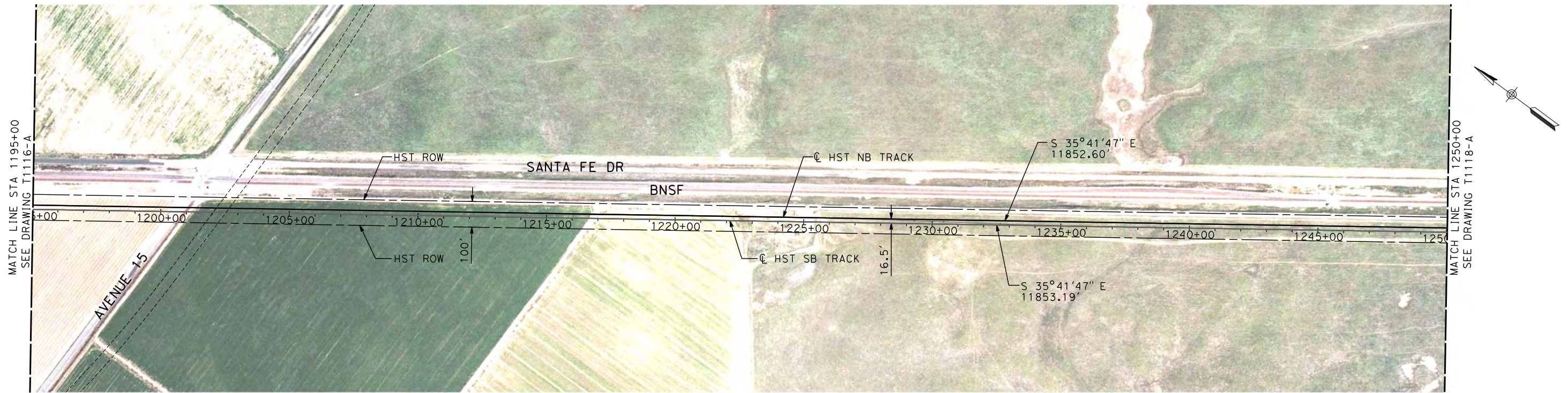
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE

**PLAN AND PROFILE
STA 1140+00 TO STA 1195+00**

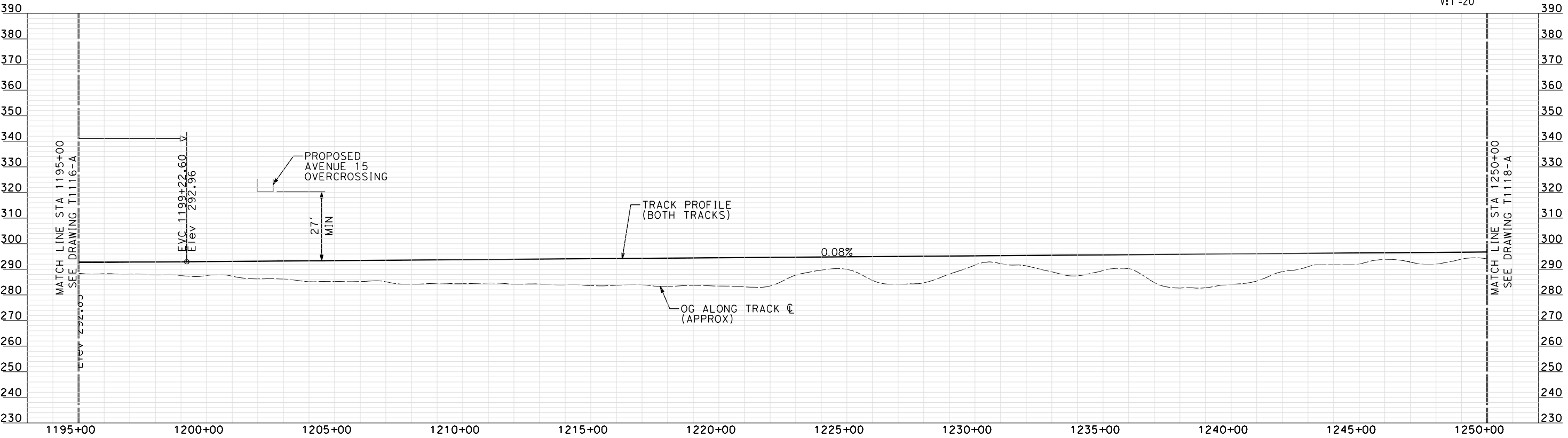
CONTRACT NO. HSR06-007
DRAWING NO. T1116-A
SCALE AS SHOWN
SHEET NO. ### OF ###

shieldsa 2/2/2012 9:12:53 AM \\usscrip001\cadd\chsr\60022962\Task-03_Merced-Fresno\CADD\Rail\Design\SHIELDSA\Rev 1 - 15% Plans\bnstf_ave 21\WF-T-1117-A.dgn



NOTE:
ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES
BASED ON RECORD DRAWINGS AND ARE SHOWN FOR
INFORMATIONAL PURPOSES ONLY.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT / SR 145 REDESIGN

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

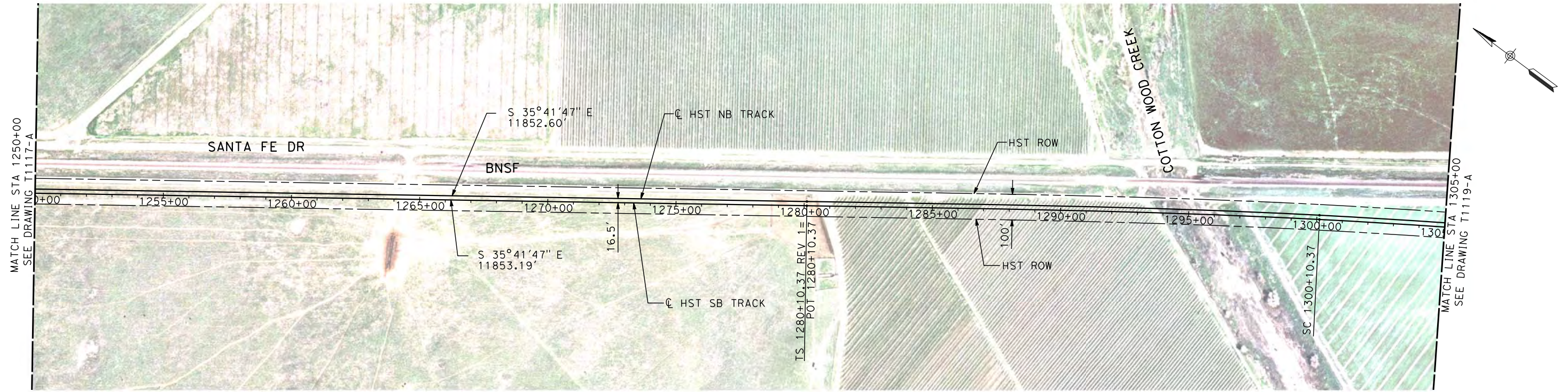
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
PLAN AND PROFILE
STA 1195+00 TO STA 1250+00

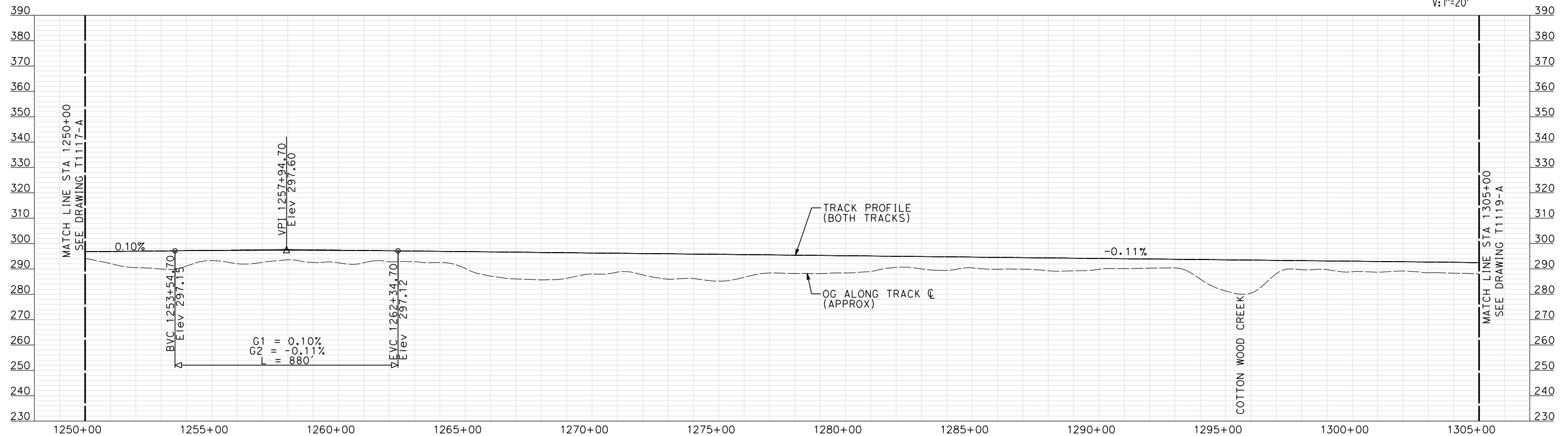
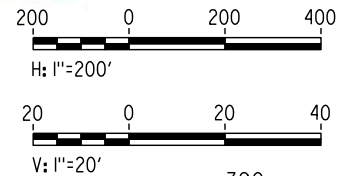
CONTRACT NO.
HSR06-007
DRAWING NO.
T1117-A
SCALE
AS SHOWN
SHEET NO.
OF

1/10/2012 10:36:28 AM \\usscr1fp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Design\SHIELDS\Rev 1 - 15% Plans\bnsf_ave 21\WF-T-1118-A.dgn shieldsa



NOTE:
ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES
BASED ON RECORD DRAWINGS AND ARE SHOWN FOR
INFORMATIONAL PURPOSES ONLY.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

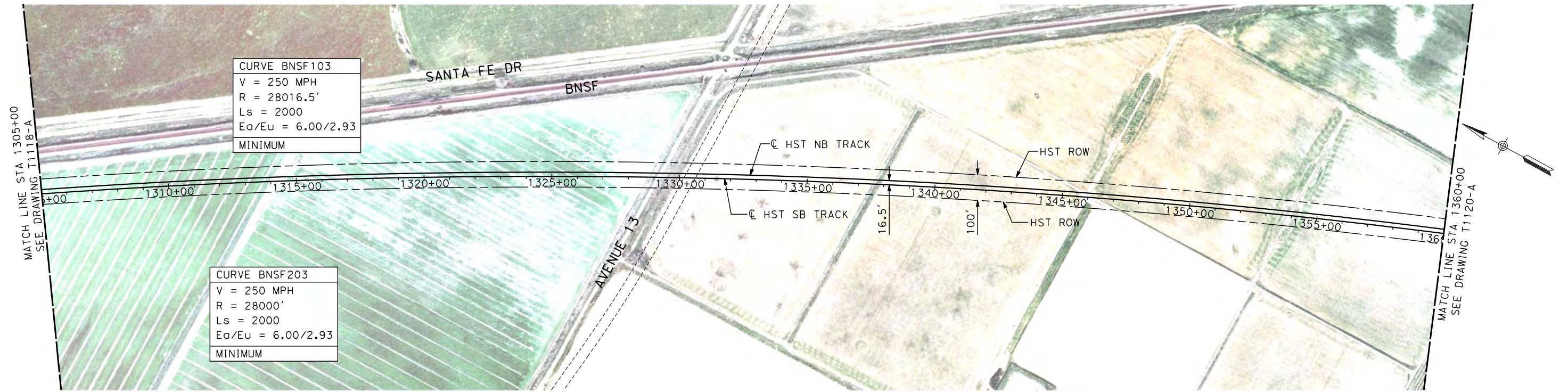


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE
PLAN AND PROFILE
STA 1250+00 TO STA 1305+00

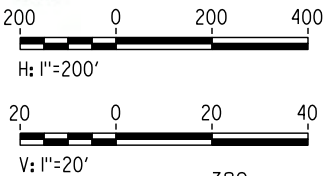
CONTRACT NO. HSR06-007
DRAWING NO. T1118-A
SCALE AS SHOWN
SHEET NO. ### OF ###

1/10/2012 10:47:33 AM \\usscri1p001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Design\SHIELDS\Rev 1 - 15% Plans\bnsf_ave 21\WF-T-1119-A.dgn shieldsa



PLAN

NOTE:
ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES
BASED ON RECORD DRAWINGS AND ARE SHOWN FOR
INFORMATIONAL PURPOSES ONLY.



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

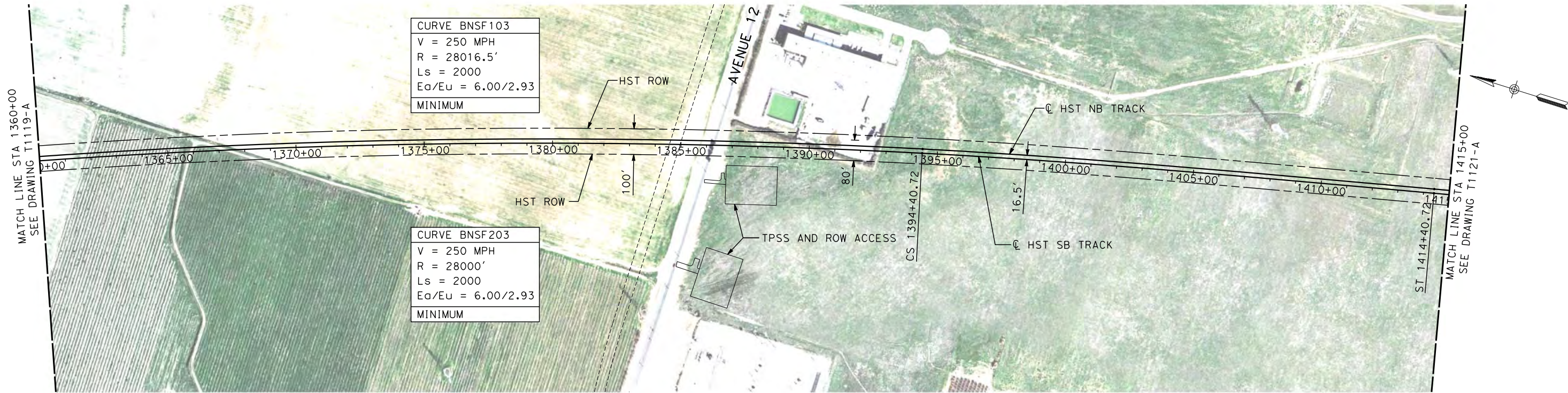


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE
PLAN AND PROFILE
STA 1305+00 TO STA 1360+00

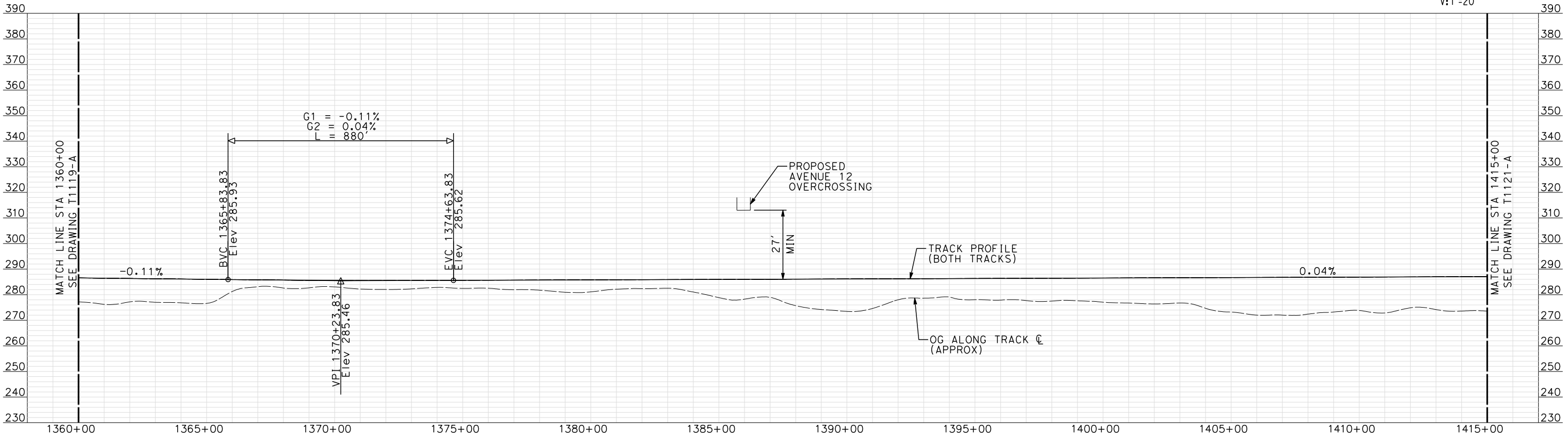
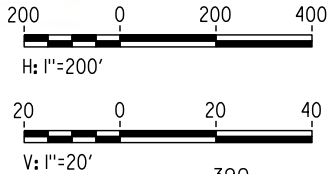
CONTRACT NO. HSR06-007
DRAWING NO. T1119-A
SCALE AS SHOWN
SHEET NO. ### OF ###

1/10/2012 10:52:20 AM \\usscrip001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Design\SHIELDS\Rev 1 - 15% Plans\bnsf_ave 21\WF-T-1120-A.dgn shieldsa



NOTE:
ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES
BASED ON RECORD DRAWINGS AND ARE SHOWN FOR
INFORMATIONAL PURPOSES ONLY.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

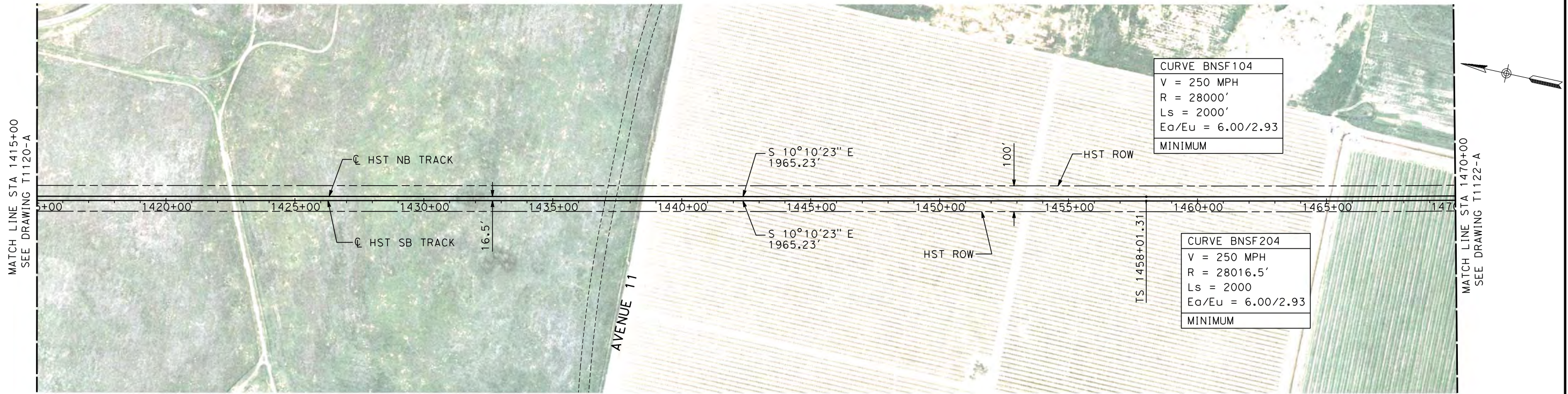
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MAIN LINE
PLAN AND PROFILE
STA 1360+00 TO STA 1415+00

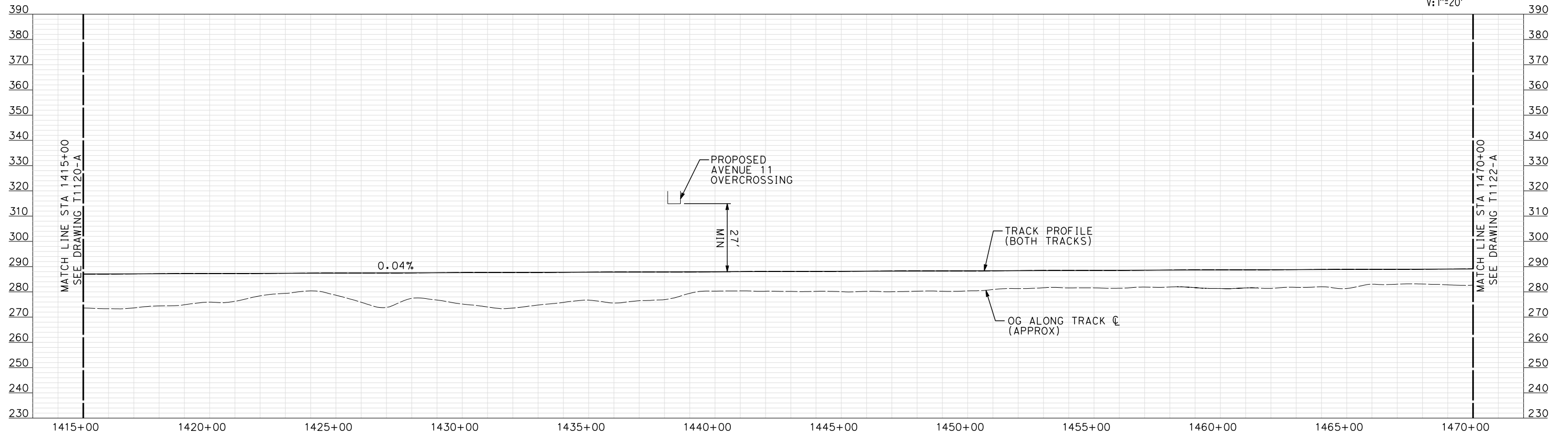
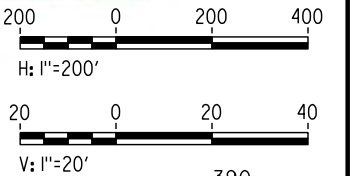
CONTRACT NO.
HSR06-007
DRAWING NO.
T1120-A
SCALE
AS SHOWN
SHEET NO.
OF

1/10/2012 10:55:06 AM \\usscrifp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Design\SHIELDS\Rev 1 - 15% Plans\bnst ave 21\WF-T-1121-A.dgn shieldsa




NOTE:
ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES
BASED ON RECORD DRAWINGS AND ARE SHOWN FOR
INFORMATIONAL PURPOSES ONLY.

PLAN

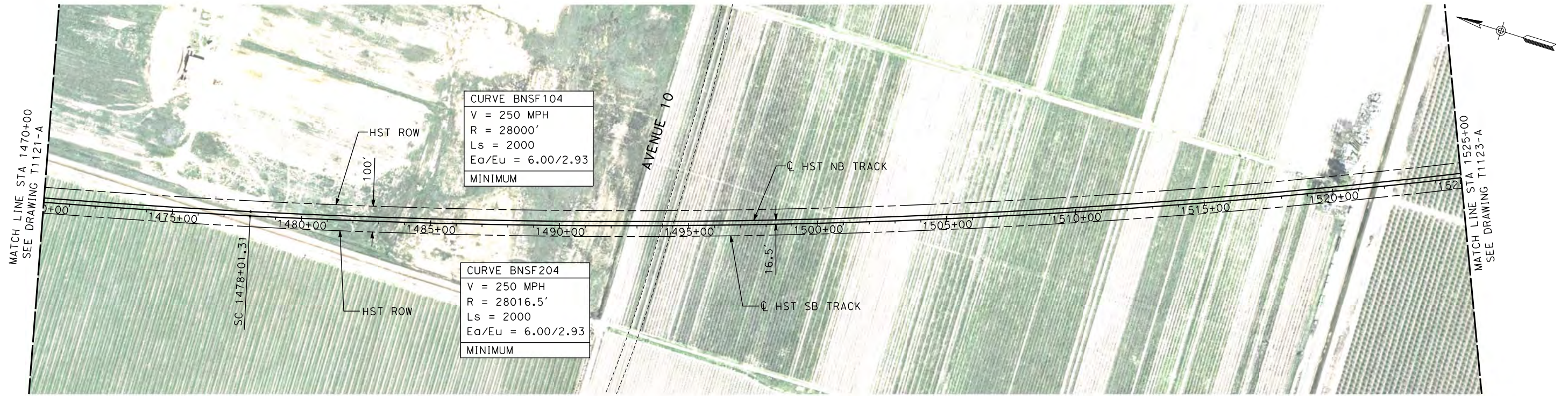


PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

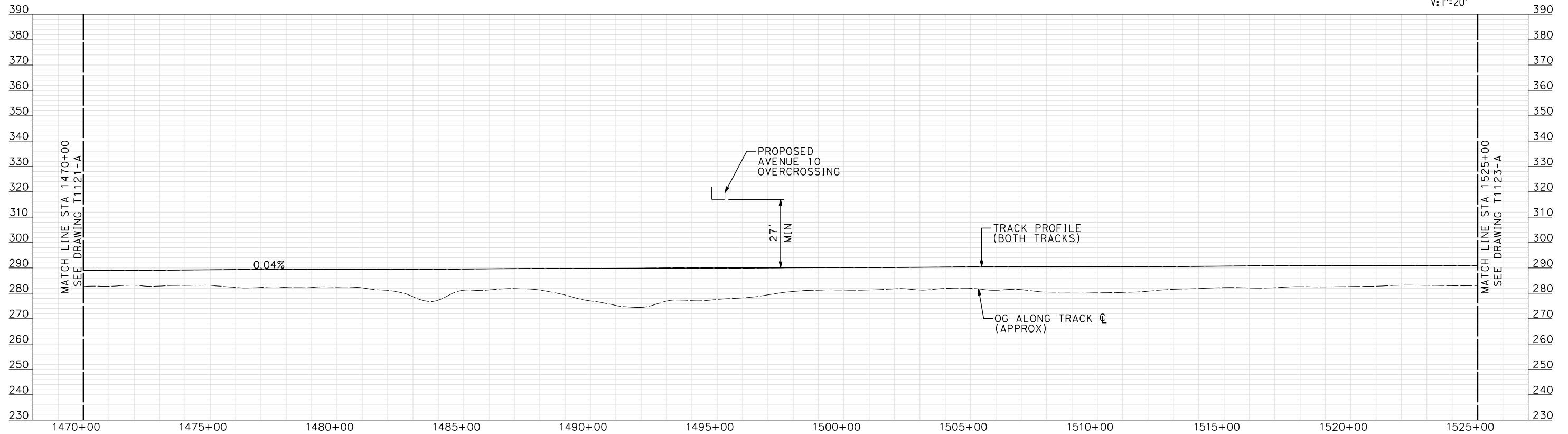
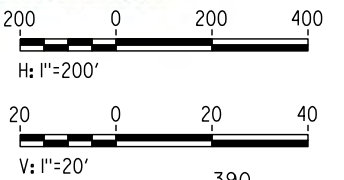
						DESIGNED BY A. SHIELDS	RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION	<div>AECOM Technical Services, Inc. 2020 L Street, Suite 300 Sacramento, CA 95811</div> <div>CH2MHILL</div>	<div><div>CALIFORNIA HIGH-SPEED RAIL AUTHORITY</div></div>	<div>CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO BNSF MAIN LINE PLAN AND PROFILE STA 1415+00 TO STA 1470+00</div>	CONTRACT NO. HSR06-007
					DRAWN BY H. SULLIVAN	DRAWING NO. T1121-A					
					CHECKED BY A. BOONE	SCALE AS SHOWN					
					IN CHARGE A. BOONE	SHEET NO. ### OF ###					
1	12/12/2011	AS			TRACK REALIGNMENT	DATE 07/27/2011					
REV	DATE	BY	CHK	APP	DESCRIPTION						

1/10/2012 10:56:37 AM \\usscrlfp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Design\SHIELDS\Rev 1 - 15% Plans\bnst ave 21\WF-T-1122-A.dgn
shieldsa



NOTE:
ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES
BASED ON RECORD DRAWINGS AND ARE SHOWN FOR
INFORMATIONAL PURPOSES ONLY.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

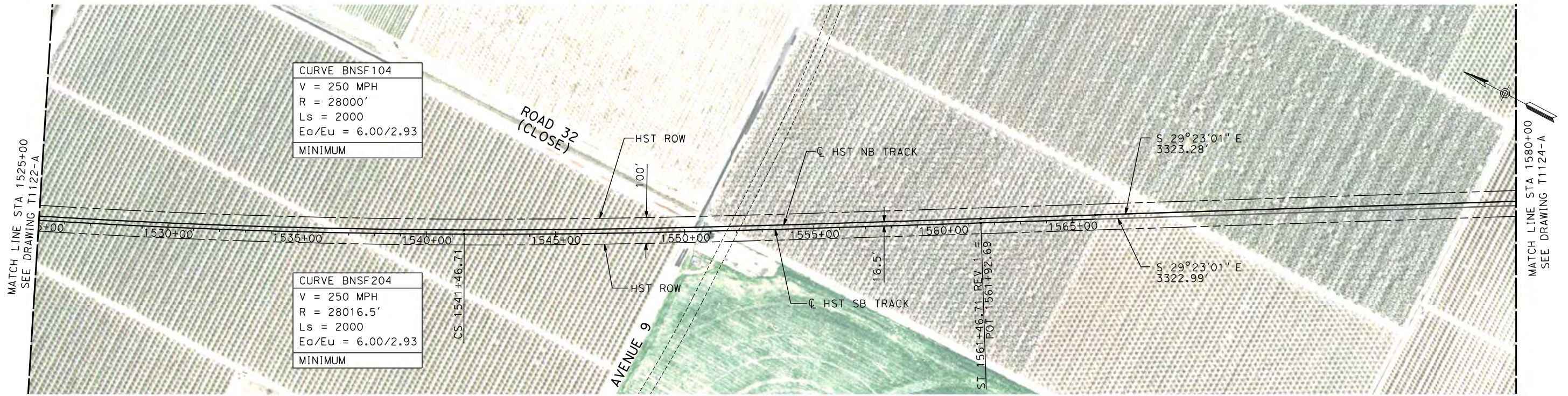


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MAIN LINE
PLAN AND PROFILE
STA 1470+00 TO STA 1525+00

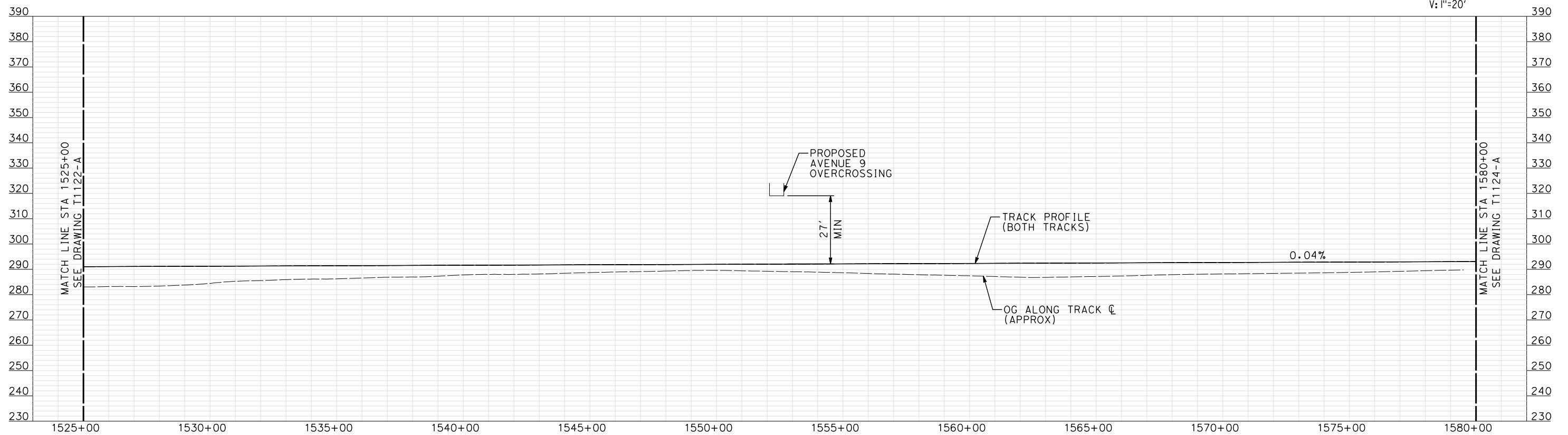
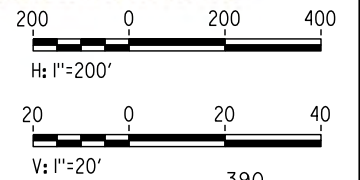
CONTRACT NO. HSR06-007
DRAWING NO. T1122-A
SCALE AS SHOWN
SHEET NO. ### OF ###

1/10/2012 11:05:50 AM \\usscrifp001\Cadd\ChSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Design\SHIELDS\Rev 1 - 15% Plans\bnst ave 21\WF-T-1123-A.dgn
shieldsa



NOTE:
ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES
BASED ON RECORD DRAWINGS AND ARE SHOWN FOR
INFORMATIONAL PURPOSES ONLY.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

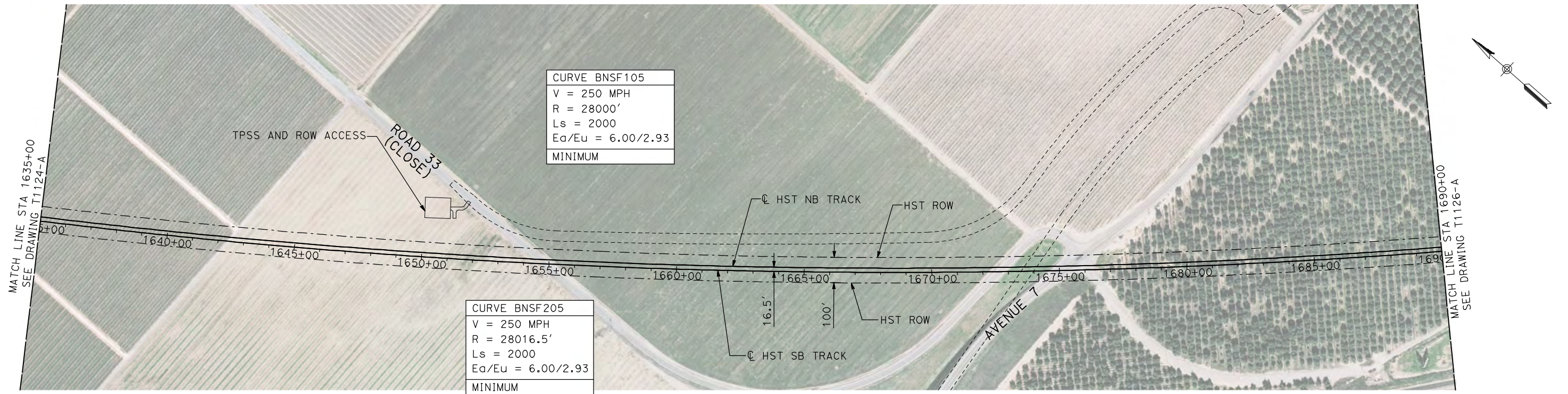
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MAIN LINE
PLAN AND PROFILE
STA 1525+00 TO STA 1580+00

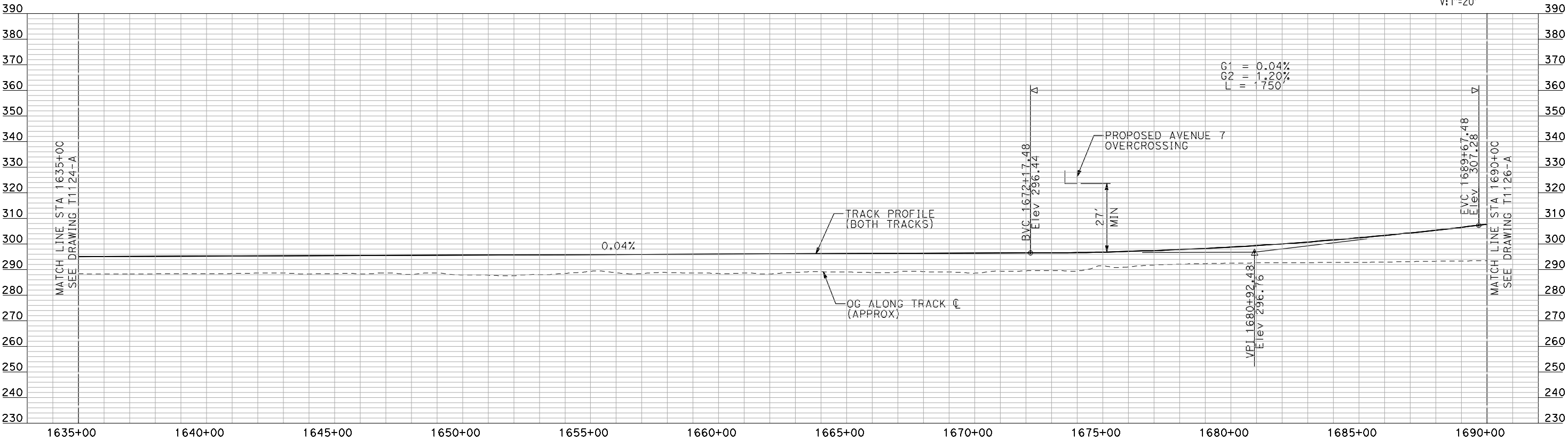
CONTRACT NO.
HSR06-007
DRAWING NO.
T1123-A
SCALE
AS SHOWN
SHEET NO.
OF

7/21/2011 11:48:54 AM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF_AVE 21\MF-T-1125-A.dgn machadoc



- NOTES:
- ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 - TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

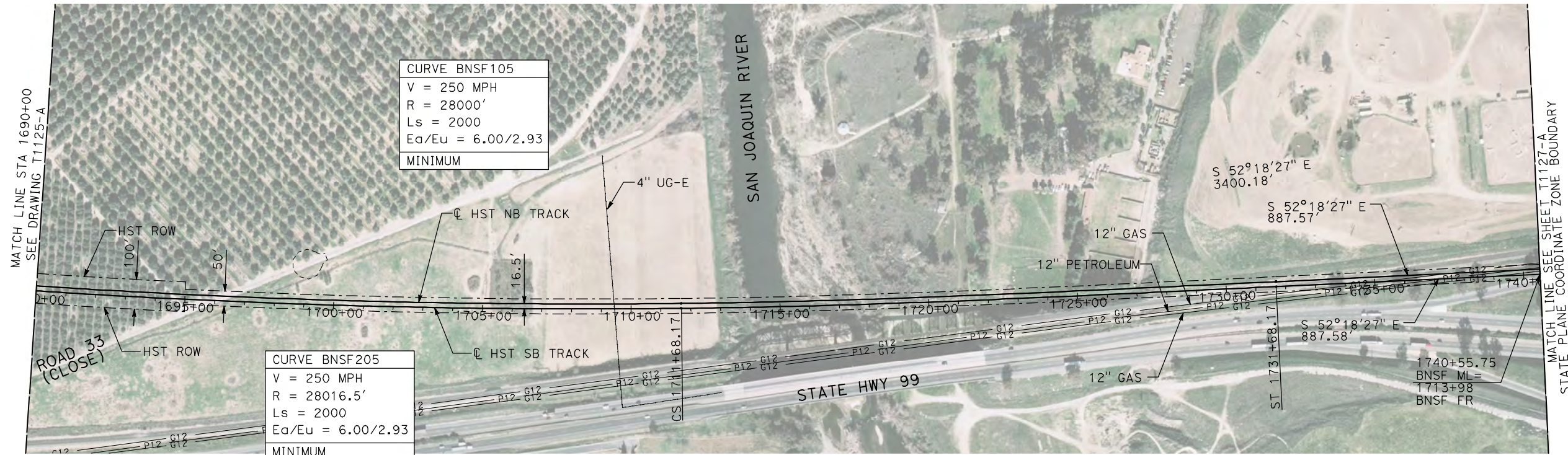
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MAIN LINE

PLAN AND PROFILE
STA 1635+00 TO STA 1690+00

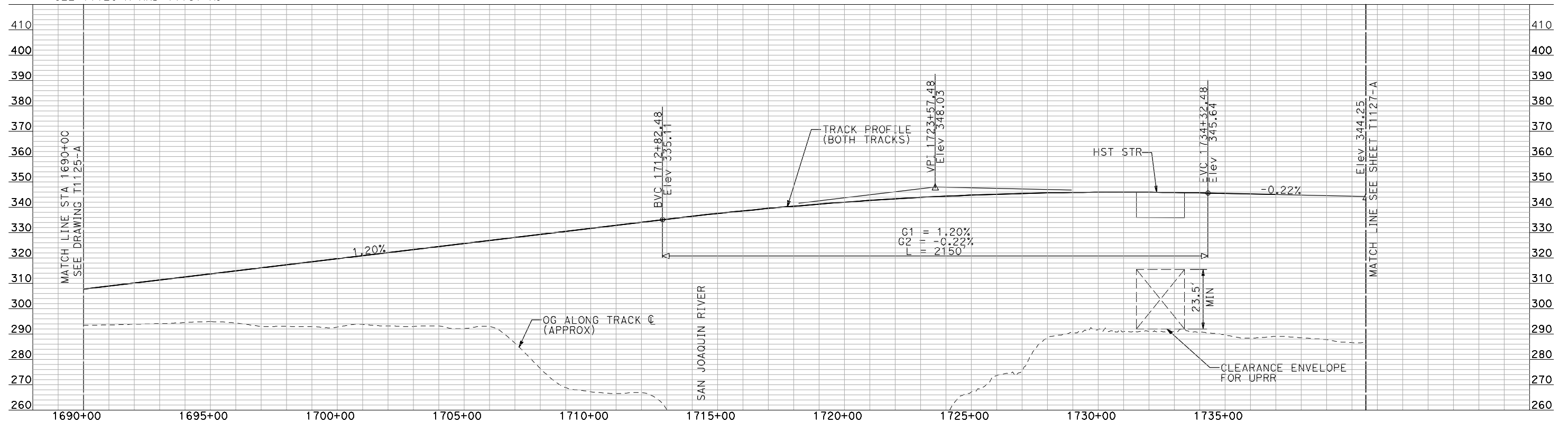
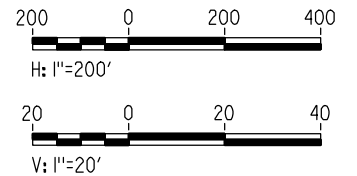
CONTRACT NO. HSR06-007
DRAWING NO. T1125-A
SCALE AS SHOWN
SHEET NO. ### OF ###

7/21/2011 11:49:39 AM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF_AVE 21\MF-T-1126-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.
 3. FOR CONTROLLING CLEARANCE ENVELOPE, SEE T1128-A AND T1131-A.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



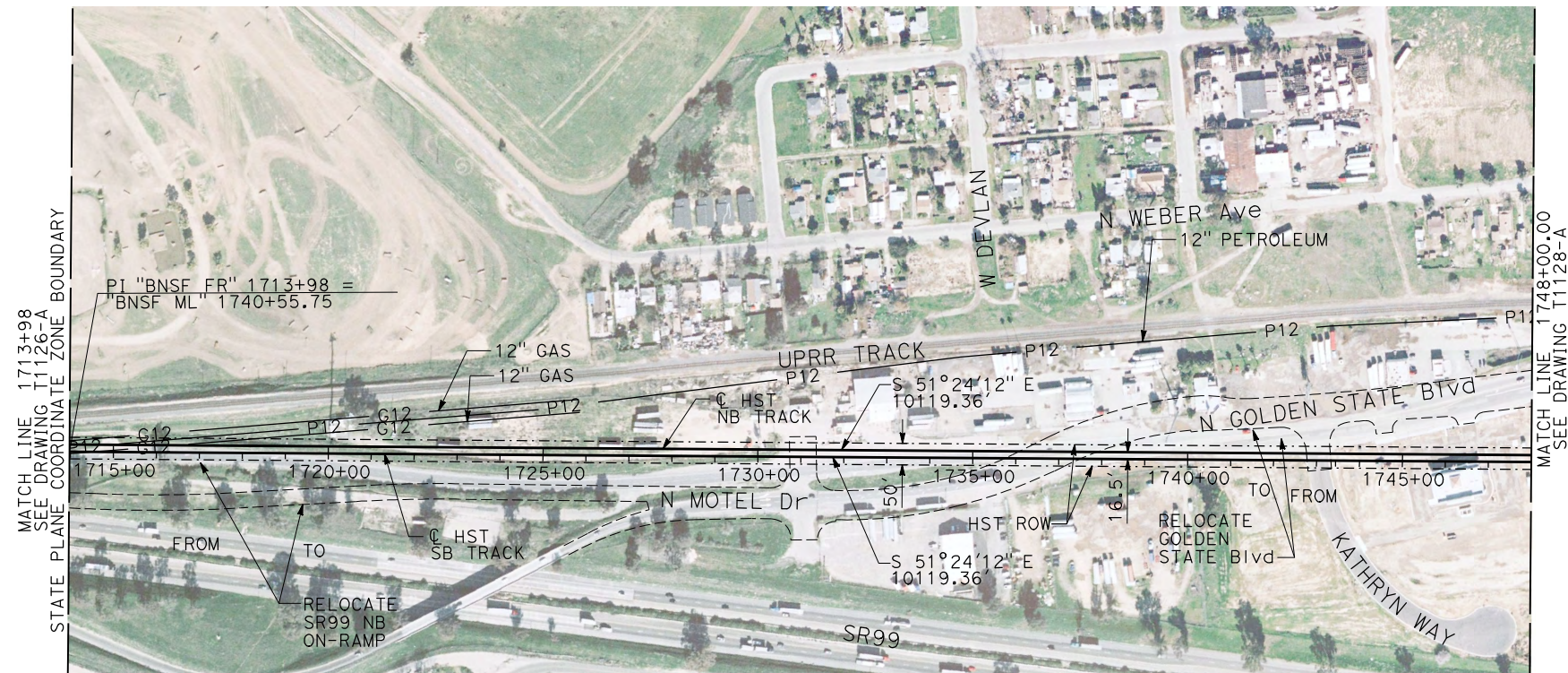
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

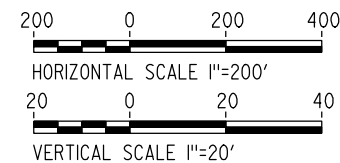
BNSF MAIN LINE

PLAN AND PROFILE
STA 1690+00 TO STA 1740+55.75

CONTRACT NO. HSR06-007
DRAWING NO. T1126-A
SCALE AS SHOWN
SHEET NO. ### OF ###

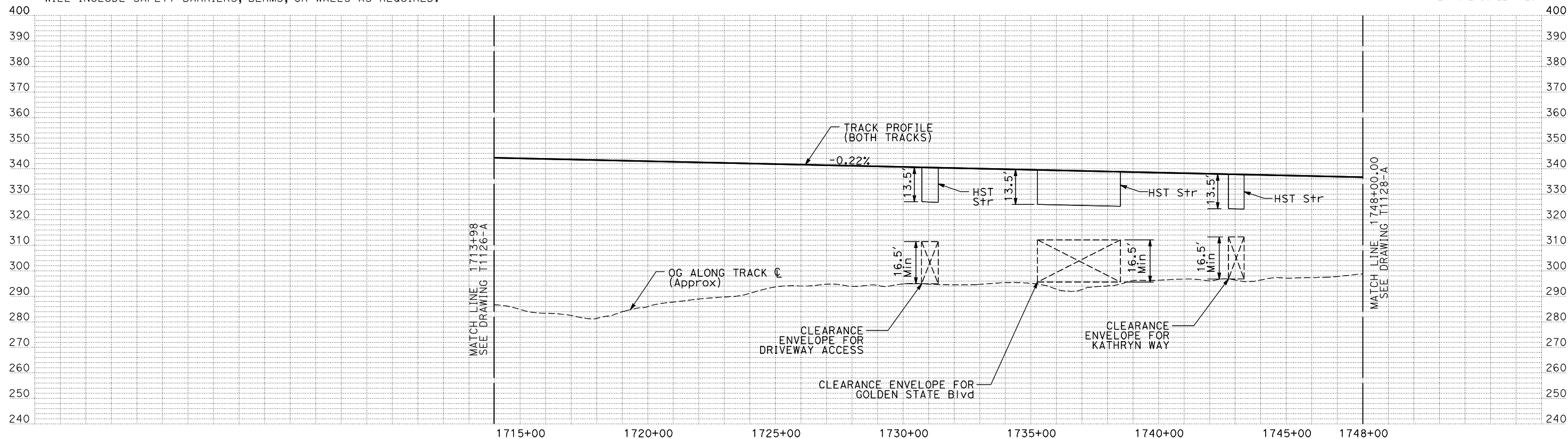


PLAN



NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY C. CHIU
DRAWN BY M. MCKEON
CHECKED BY V. CHIO
IN CHARGE J. VALSECCHI
DATE JULY 2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

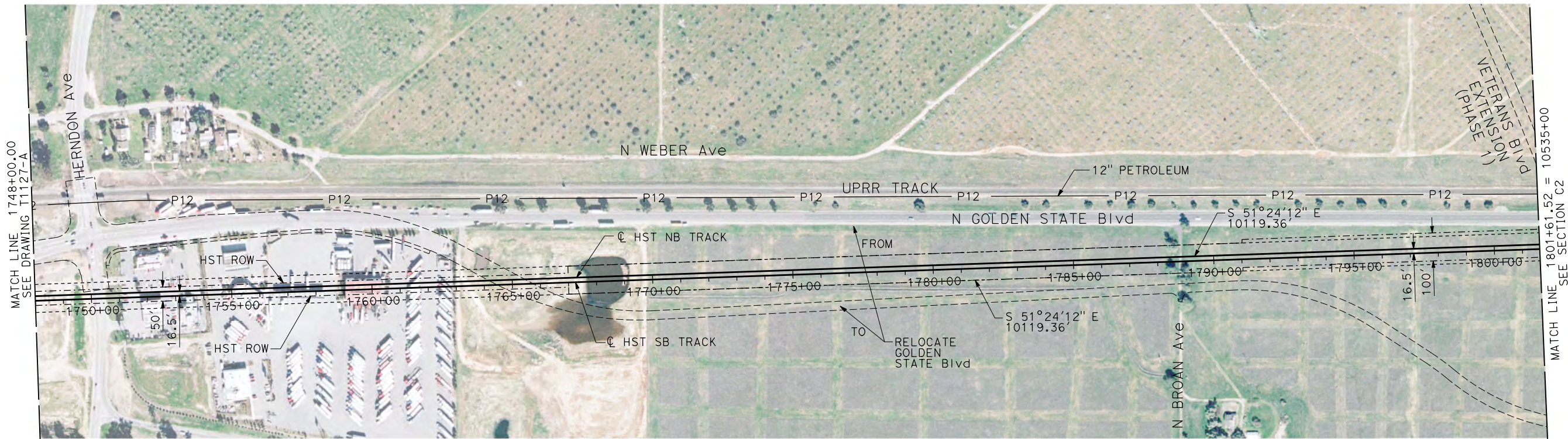
BNSF MAIN LINE

PLAN AND PROFILE
STA 1713+98 TO STA 1748+00

CONTRACT NO. HSR06-007
DRAWING NO. T1127-A
SCALE AS SHOWN
SHEET NO.

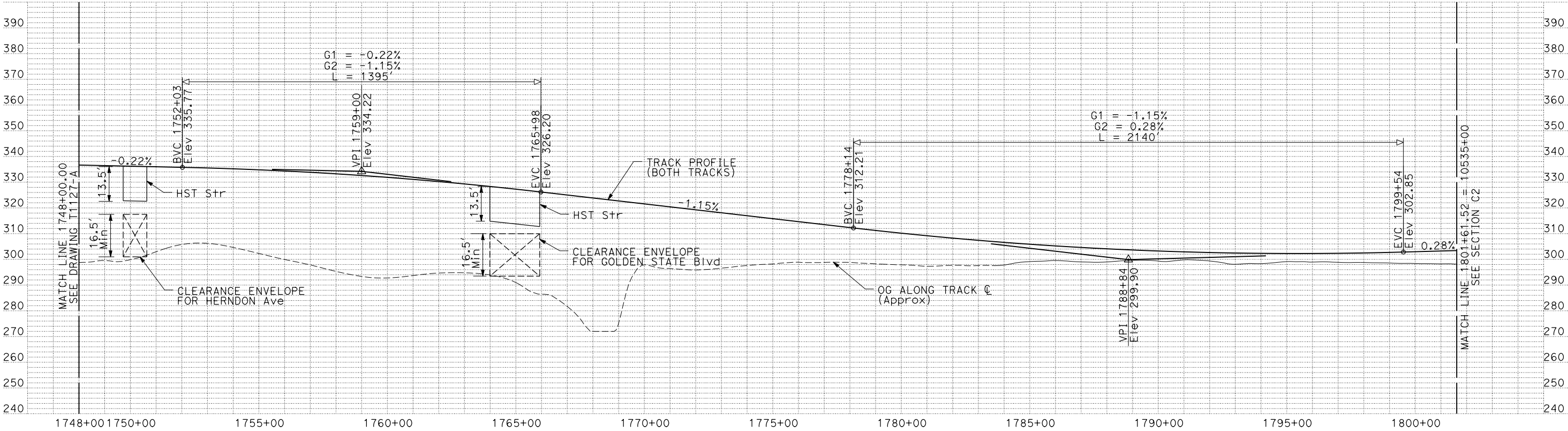
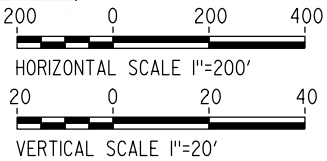
USERNAME => lwebster
DGN FILE => MF-T-1127-A1-E

DATE PLOTTED => 20-JUL-2011
TIME PLOTTED => 13:13



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY C. CHIU
DRAWN BY M. MCKEON
CHECKED BY V. CHIO
IN CHARGE J. VALSECCHI
DATE JULY 2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

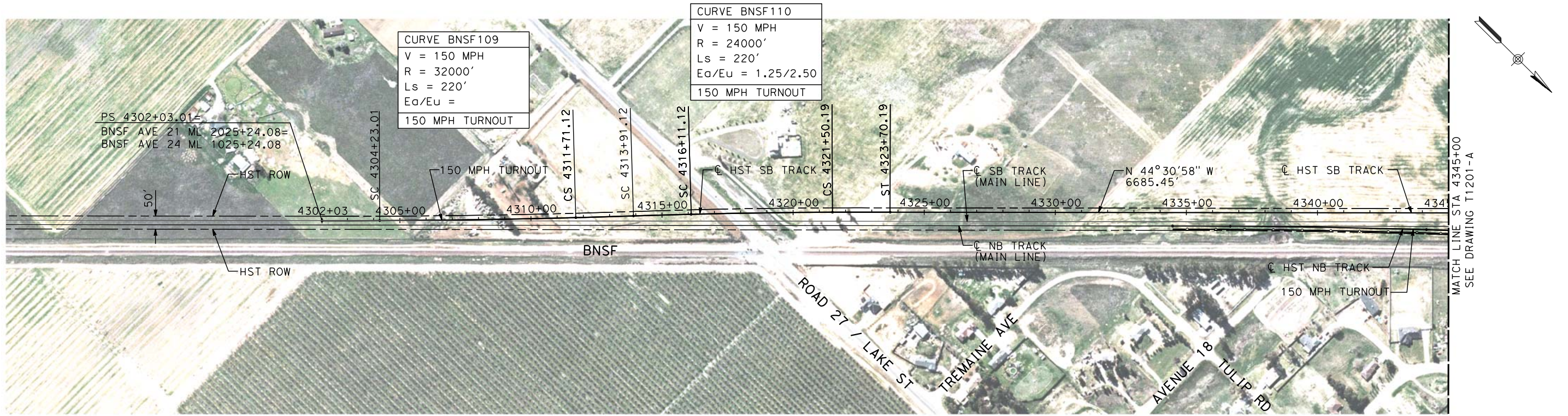
BNSF MAIN LINE

PLAN AND PROFILE
STA 1748+00 TO STA 1801+61.52

CONTRACT NO. HSR06-007
DRAWING NO. T1128-A
SCALE AS SHOWN
SHEET NO.

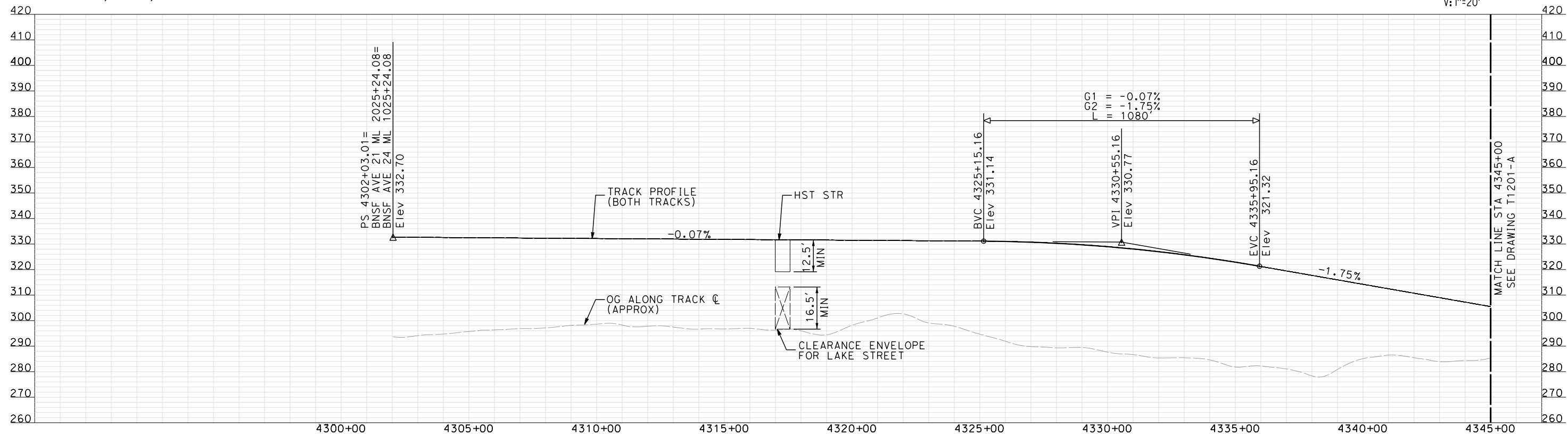
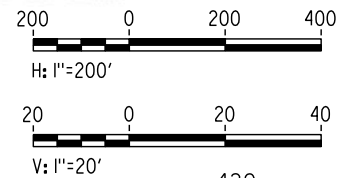
USERNAME => stleon

3/25/2012 3:01:46 PM \\usscrifp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Sheet\DEIR\BNSF AVE 21\WF-T-1200-A.dgn
shieldsa



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

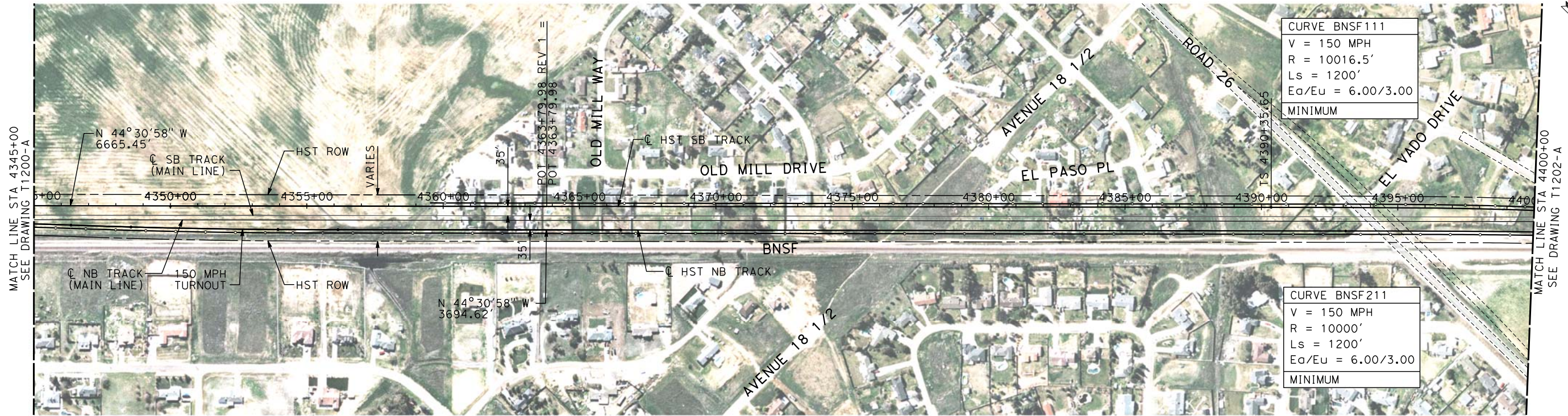


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

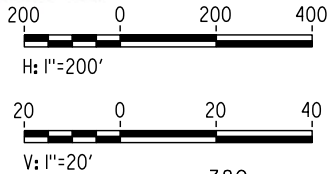
BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 4302+03.01 TO STA 4345+00

CONTRACT NO. HSR06-007
DRAWING NO. T1200-A
SCALE AS SHOWN
SHEET NO. ### OF ###

3/25/2012 3:06:14 PM \\usscrifp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Sheet\DEIR\BNSF AVE 21\WF-T-1201-A.dgn
shieldsa



PLAN



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

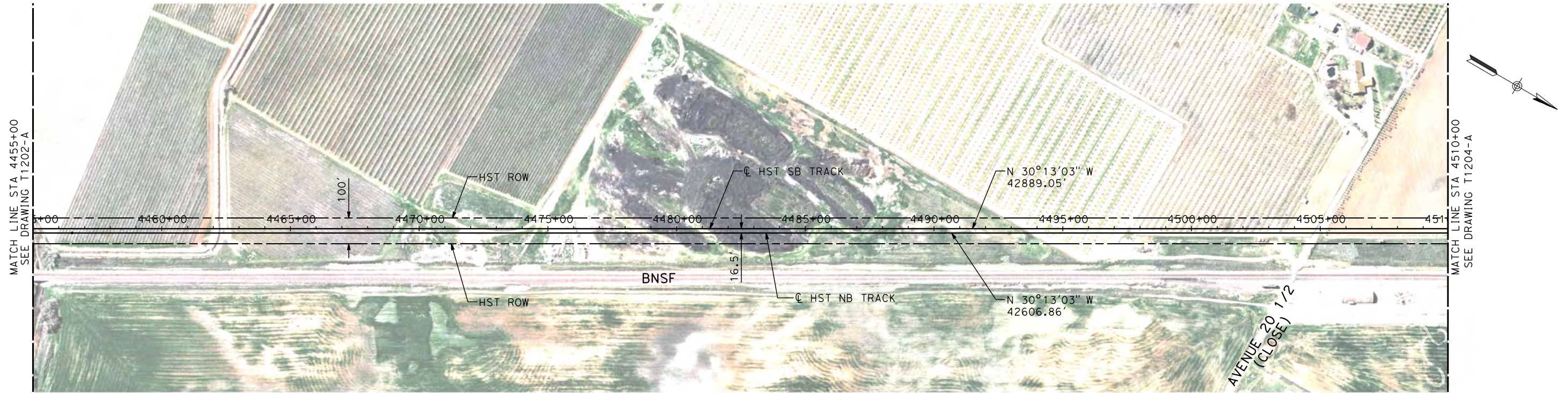
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 4345+00 TO STA 4400+00

CONTRACT NO.
HSR06-007
DRAWING NO.
T1201-A
SCALE
AS SHOWN
SHEET NO.
OF

1/10/2012 2:25:48 PM \\usscrifp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Design\SHIELDS\Rev 1 - 15% Plans\bnf ave 21\WF-T-1203-A.dgn shieldsa



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

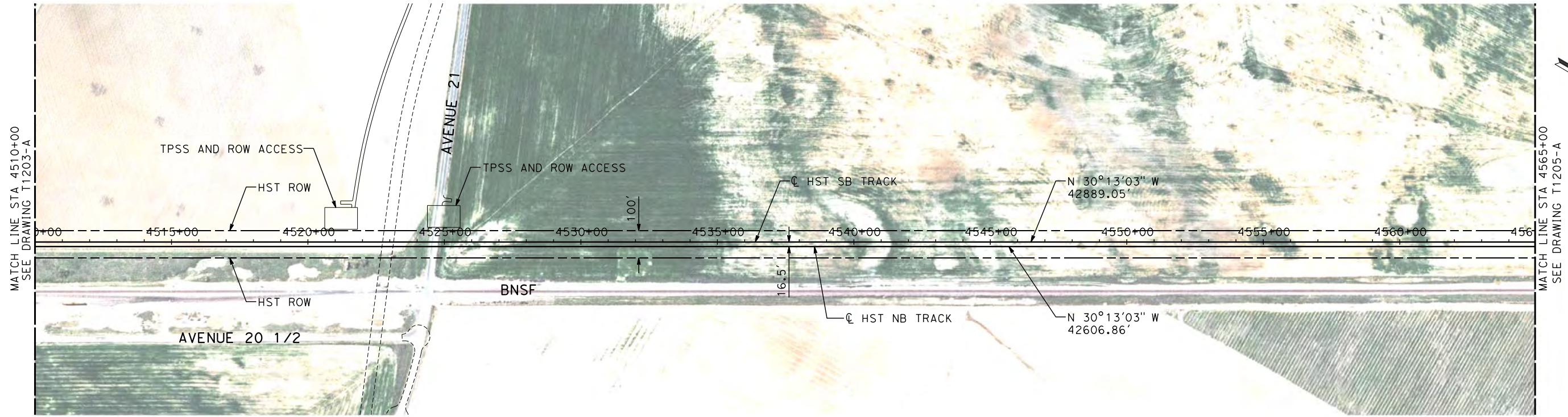
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 4455+00 TO STA 4510+00

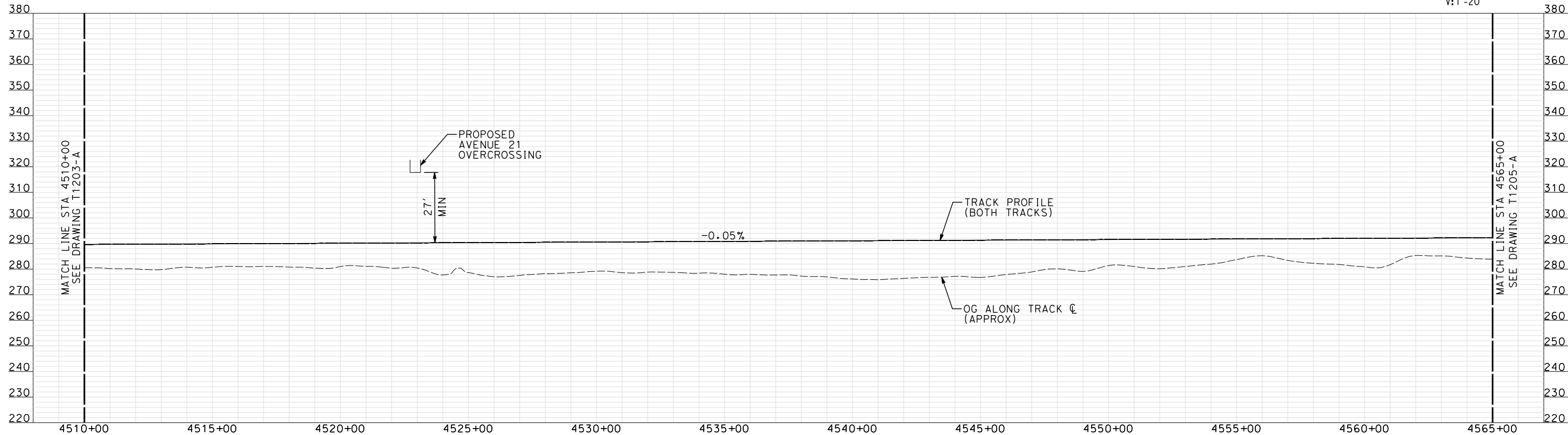
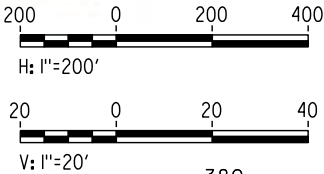
CONTRACT NO.
HSR06-007
DRAWING NO.
T1203-A
SCALE
AS SHOWN
SHEET NO.
OF

1/10/2012 2:30:22 PM \\usscrifp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Design\SHIELDS\Rev 1 - 15% Plans\bnstf ave 21\WF-T-1204-A.dgn shieldsa



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

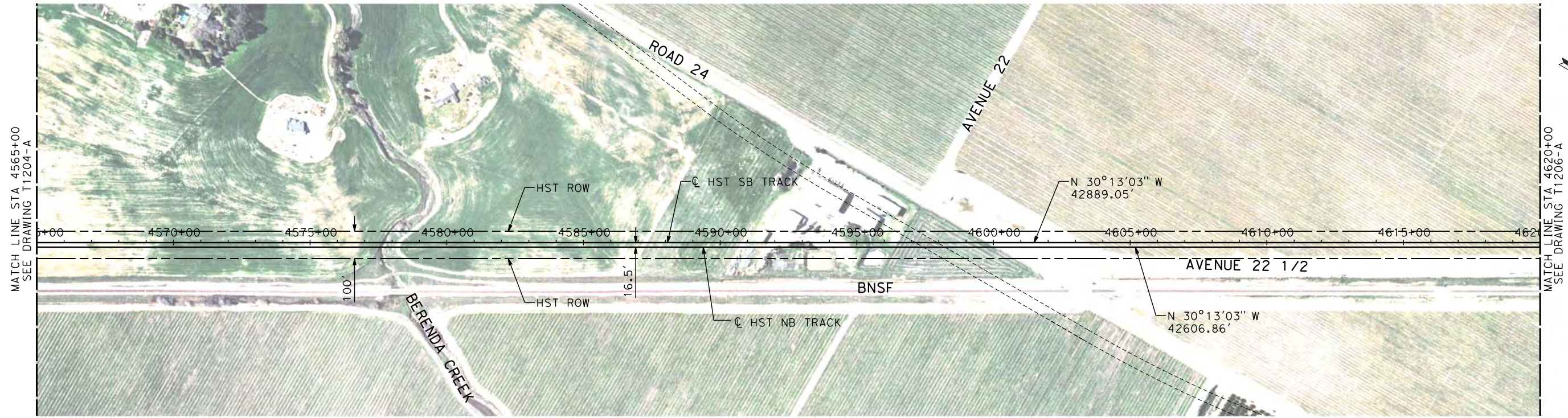
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 4510+00 TO STA 4565+00

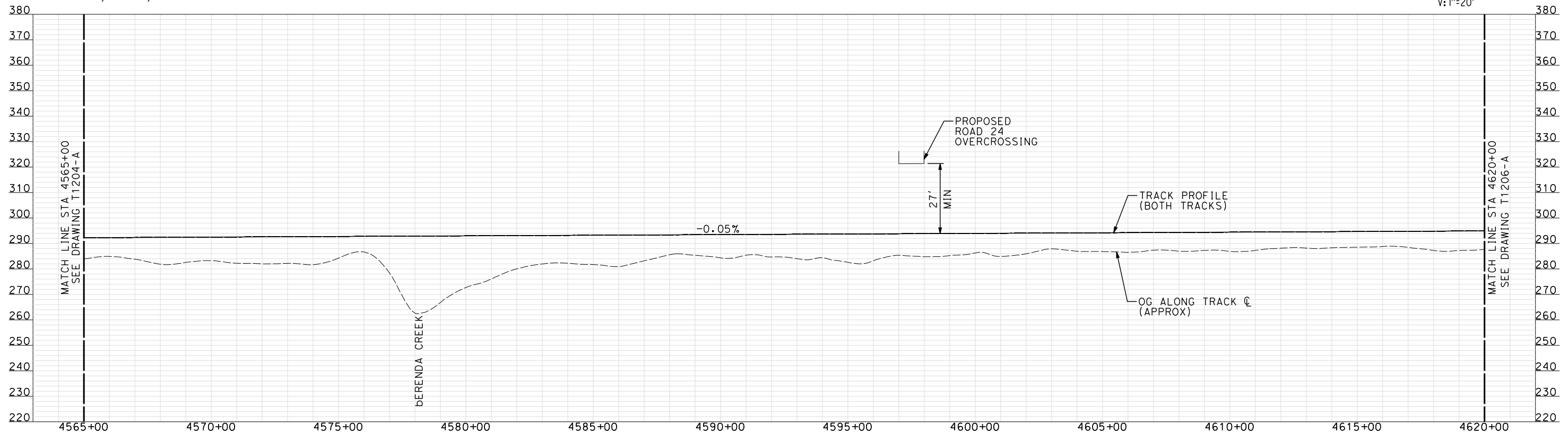
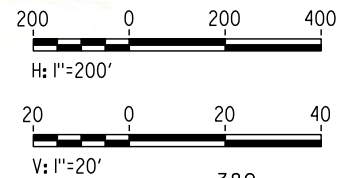
CONTRACT NO. HSR06-007
DRAWING NO. T1204-A
SCALE AS SHOWN
SHEET NO. ### OF ###

1/10/2012 2:32:06 PM \\usscrifp001\Cadd\ChSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Design\SHIELDS\Rev 1 - 15% Plans\bnstf_ave 21\WF-T-1205-A.dgn shieldsa



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

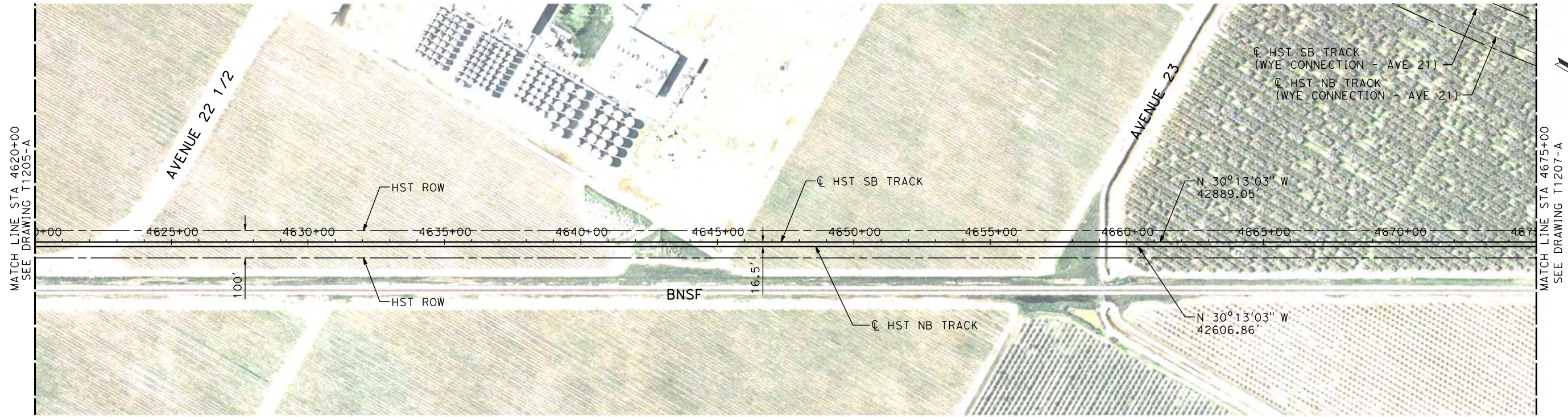
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 4565+00 TO STA 4620+00

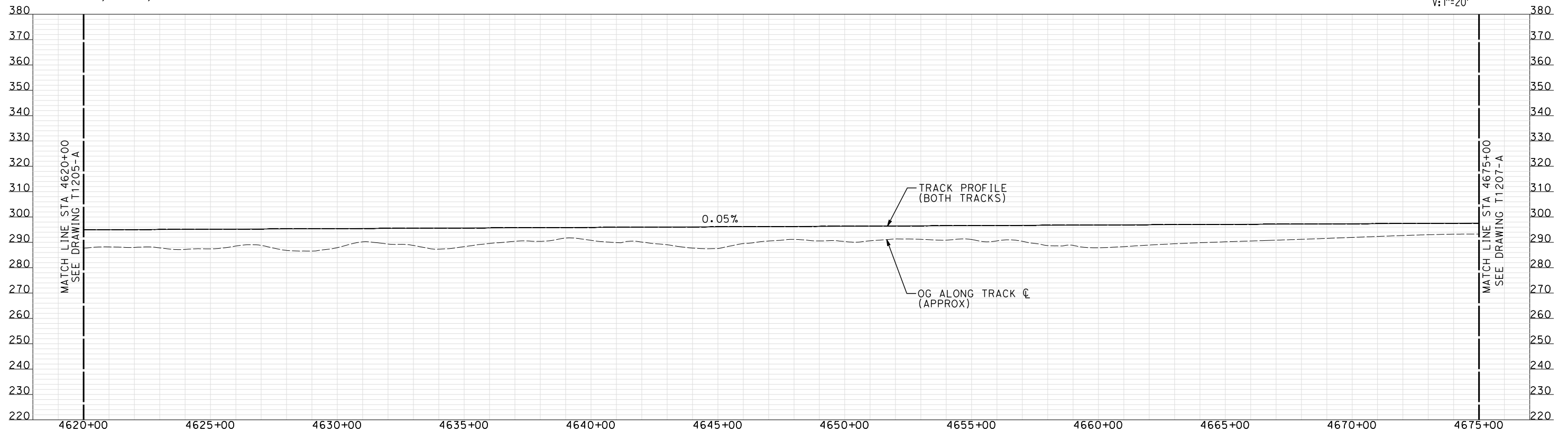
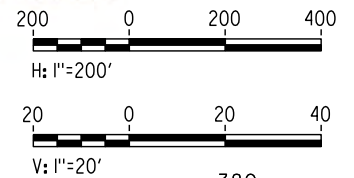
CONTRACT NO. HSR06-007
DRAWING NO. T1205-A
SCALE AS SHOWN
SHEET NO. ### OF ###

1/10/2012 2:34:04 PM \\usscrifp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Design\SHIELDS\Rev 1 - 15% Plans\bnsf ave 21\WF-T-1206-A.dgn shieldsa



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



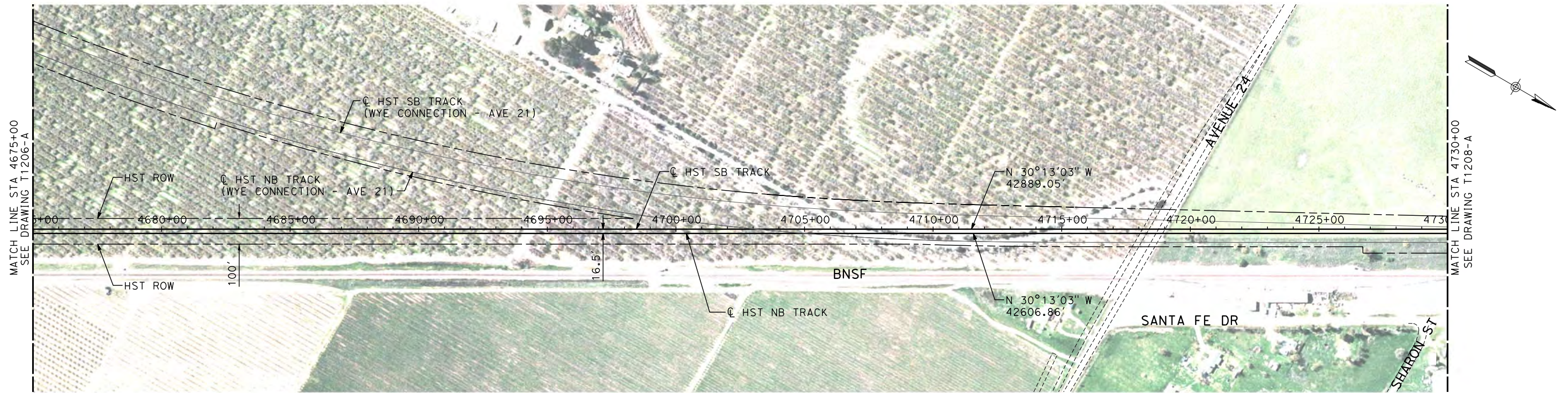
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 4620+00 TO STA 4675+00

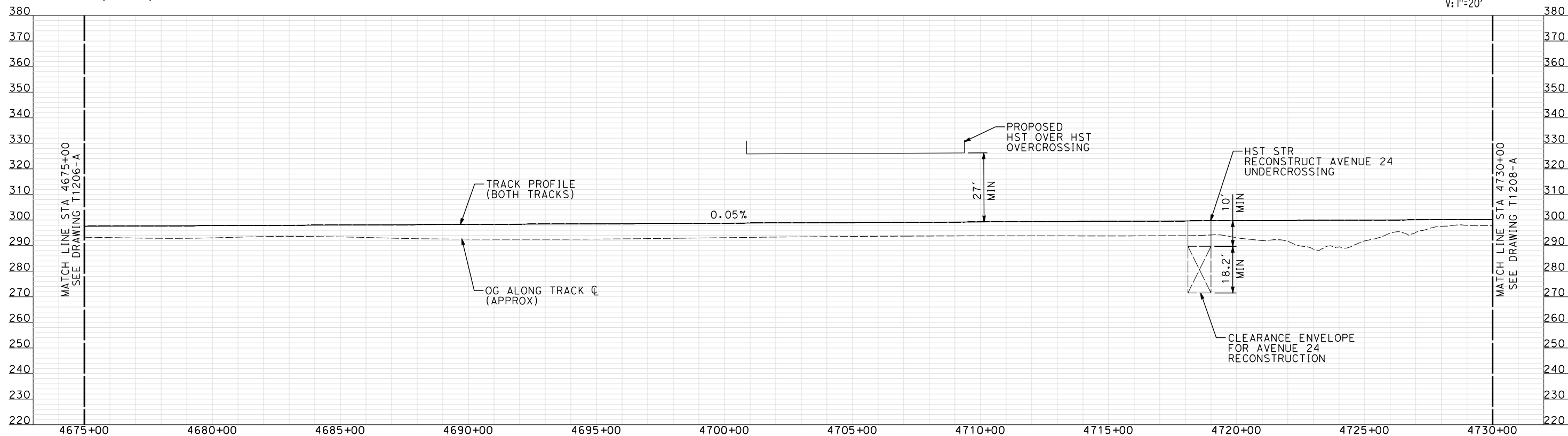
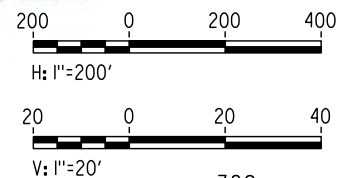
CONTRACT NO. HSR06-007
DRAWING NO. T1206-A
SCALE AS SHOWN
SHEET NO. ### OF ###

1/10/2012 2:35:58 PM \\usscrifp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Design\SHIELDS\Rev 1 - 15% Plans\bnsmf ave 21\WF-T-1207-A.dgn



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

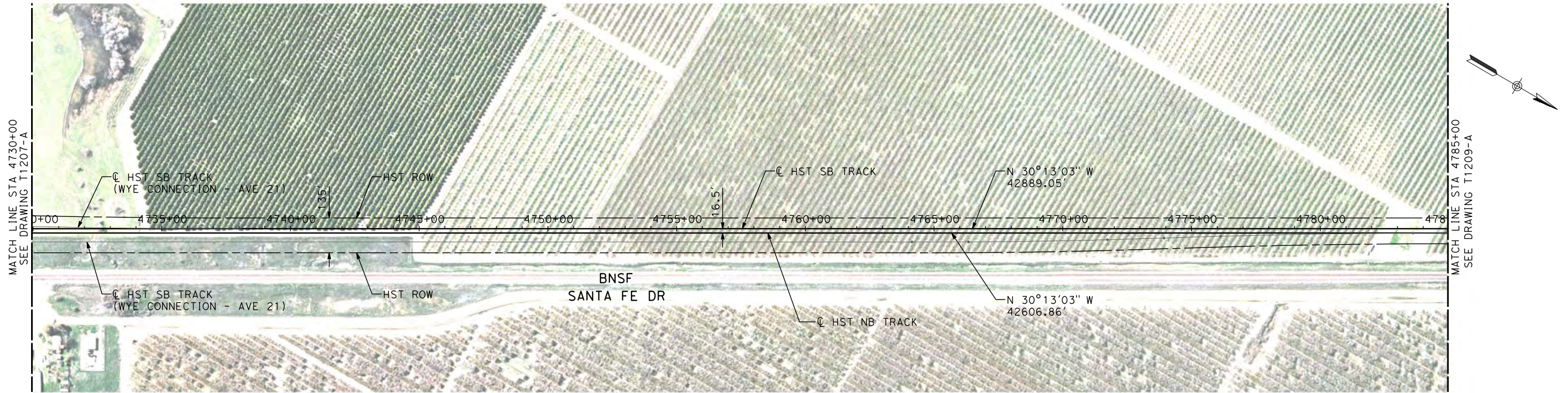
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



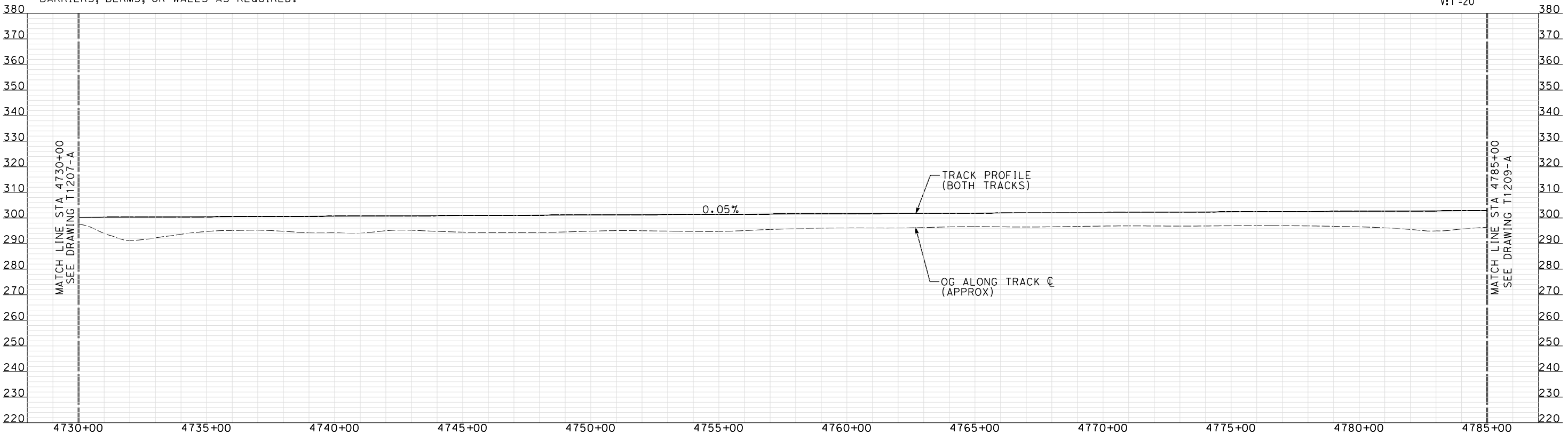
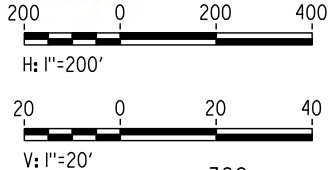
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 4675+00 TO STA 4730+00

CONTRACT NO.
HSR06-007
DRAWING NO.
T1207-A
SCALE
AS SHOWN
SHEET NO.
OF


1/10/2012 2:38:58 PM \\usscrifp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Design\SHIELDS\Rev 1 - 15% Plans\bnstf ave 21\WF-T-1208-A.dgn shieldsa



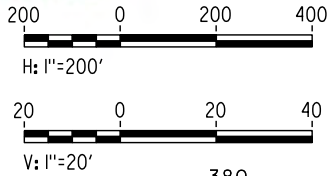
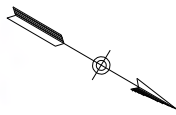
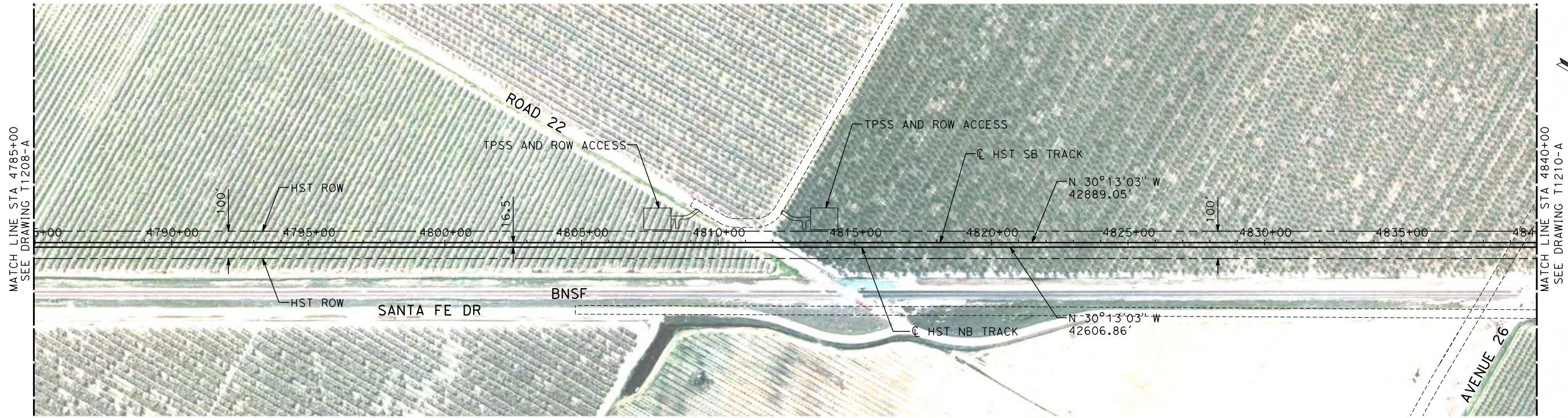
- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

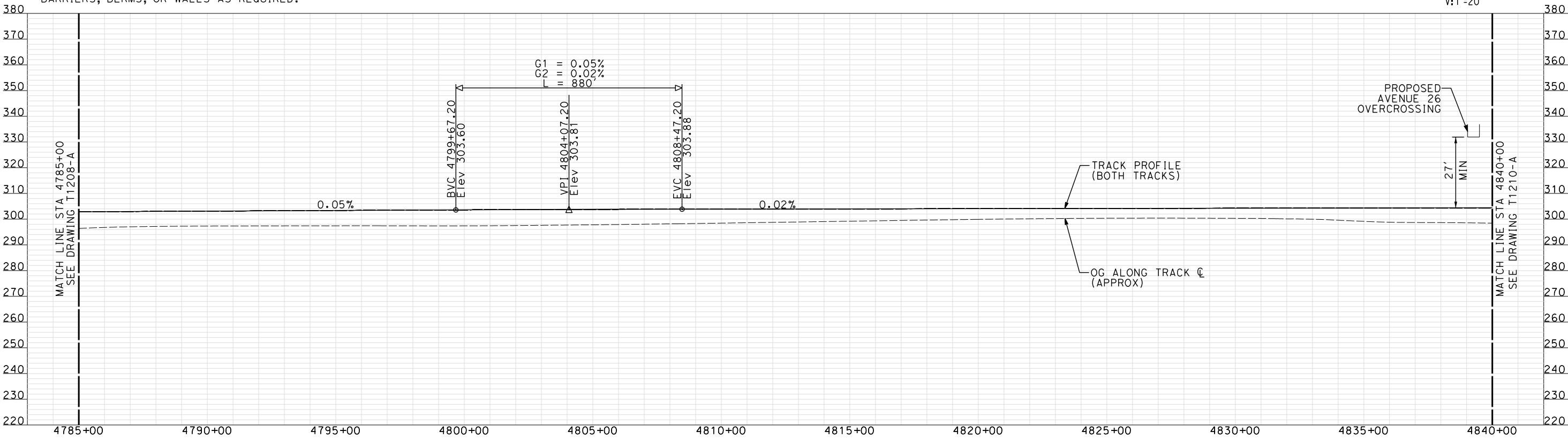
							DESIGNED BY A. SHIELDS	RECORD SET 15% DESIGN SUBMITTAL	AECOM Technical Services, Inc. 2020 L Street, Suite 300 Sacramento, CA 95811	 CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO	CONTRACT NO. HSR06-007
						DRAWN BY H. SULLIVAN	DRAWING NO. T1208-A					
						CHECKED BY A. BOONE	SCALE AS SHOWN					
						IN CHARGE A. BOONE	SHEET NO. ### OF ###					
1	12/12/2011	AS				TRACK REALIGNMENT	DATE 07/27/2011					
REV	DATE	BY	CHK	APP		DESCRIPTION						

1/10/2012 2:41:56 PM \\usscrifp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Design\SHIELDS\Rev 1 - 15% Plans\bnsh ave 21\WF-T-1209-A.dgn shieldsa



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

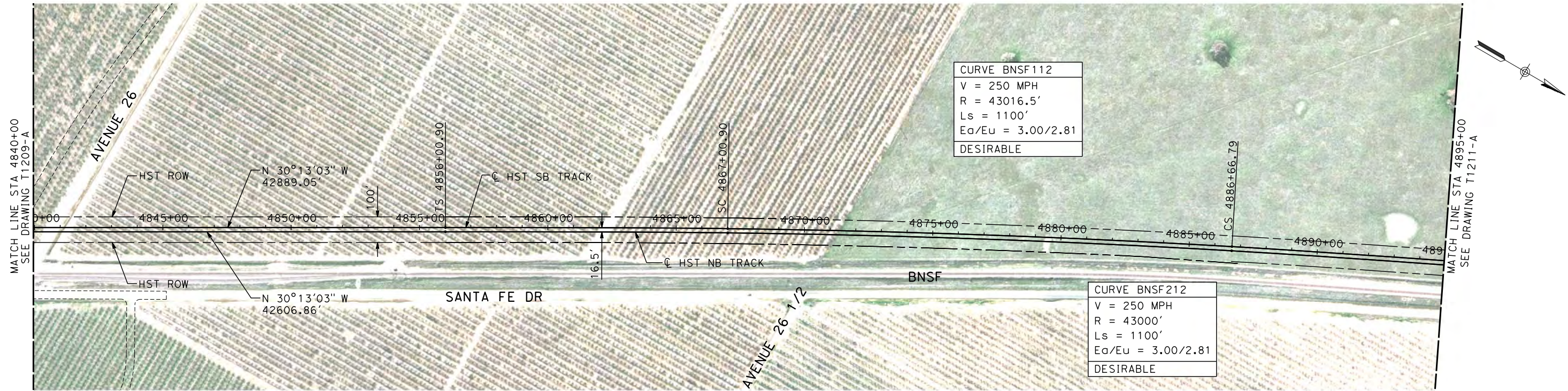
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 4785+00 TO STA 4840+00

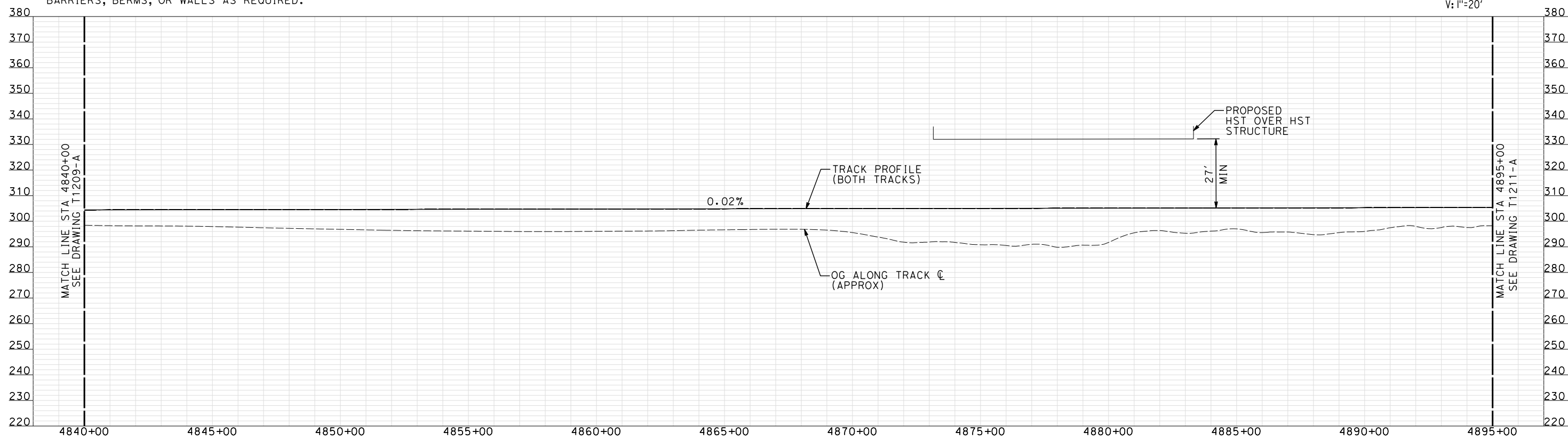
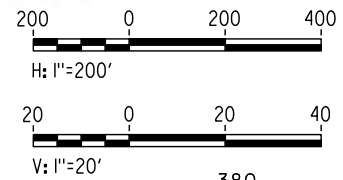
CONTRACT NO.
HSR06-007
DRAWING NO.
T1209-A
SCALE
AS SHOWN
SHEET NO.
OF

1/10/2012 2:46:56 PM \\usscrifp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Design\SHIELDS\Rev 1 - 15% Plans\bsnf ave 21\WF-T-1210-A.dgn shieldsa




- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN

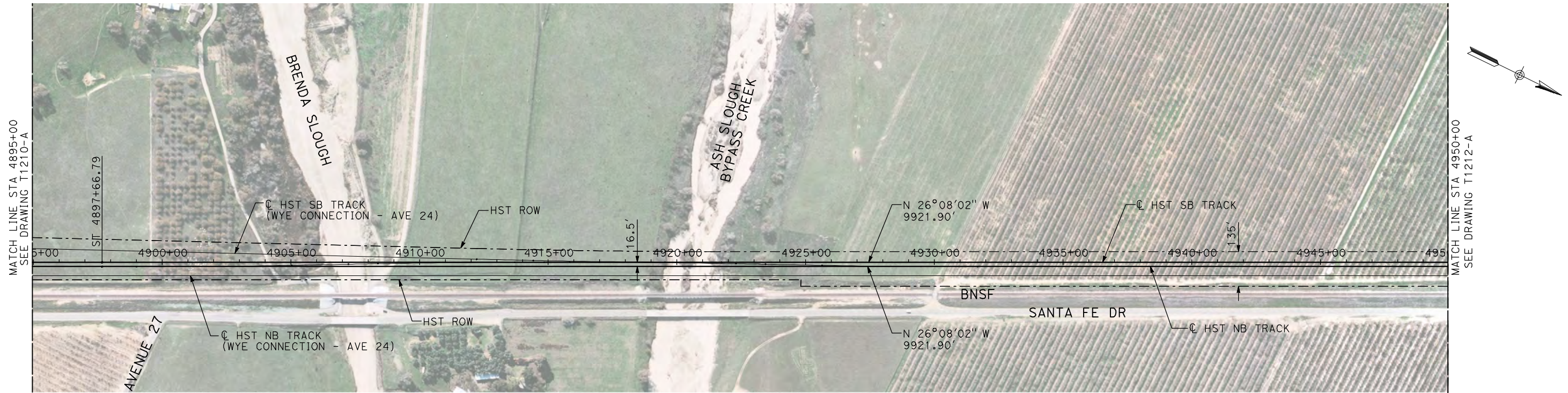


PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

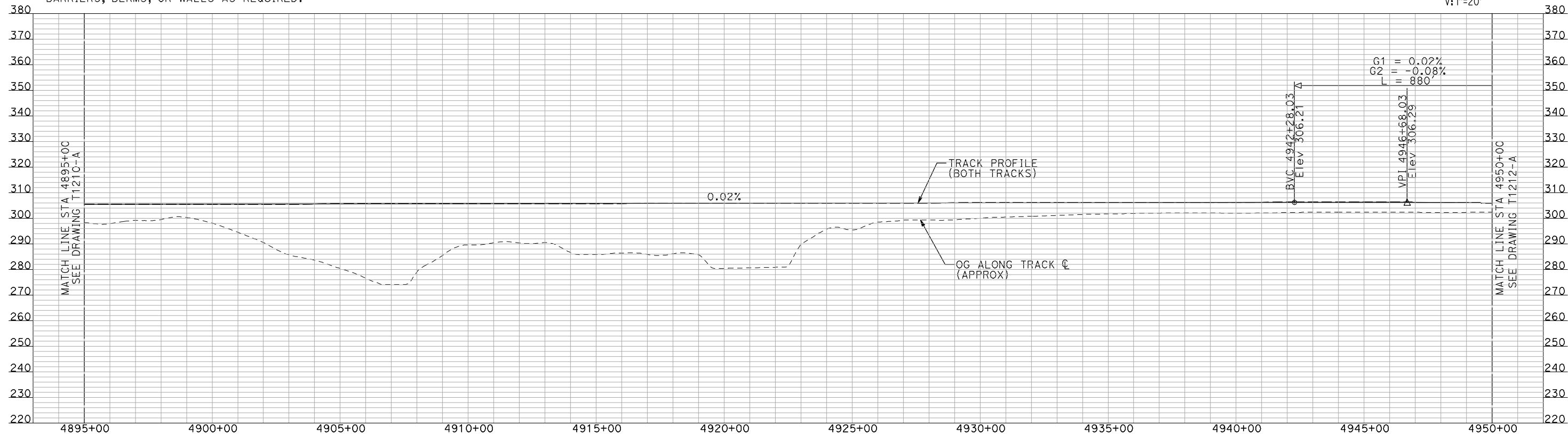
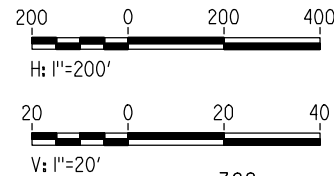
						DESIGNED BY A. SHIELDS	RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION	<div>AECOM Technical Services, Inc. 2020 L Street, Suite 300 Sacramento, CA 95811</div> <div>CH2MHILL</div>	<div><div>CALIFORNIA HIGH-SPEED RAIL AUTHORITY</div></div>	CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO BNSF MERCED CONNECTION AVE 21 / AVE 24 PLAN AND PROFILE STA 4840+00 TO STA 4895+00	CONTRACT NO. HSR06-007			
					DRAWN BY H. SULLIVAN	DRAWING NO. T1210-A								
					CHECKED BY A. BOONE	SCALE AS SHOWN								
					IN CHARGE A. BOONE	SHEET NO. ### OF ###								
1	12/12/2011	AS			TRACK REALIGNMENT	DATE 07/27/2011								
REV	DATE	BY	CHK	APP	DESCRIPTION									

7/21/2011 12:02:21 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF AVE 24\MF-T-1211-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

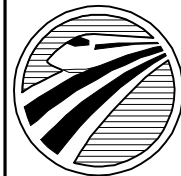
REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 4895+00 TO STA 4950+00

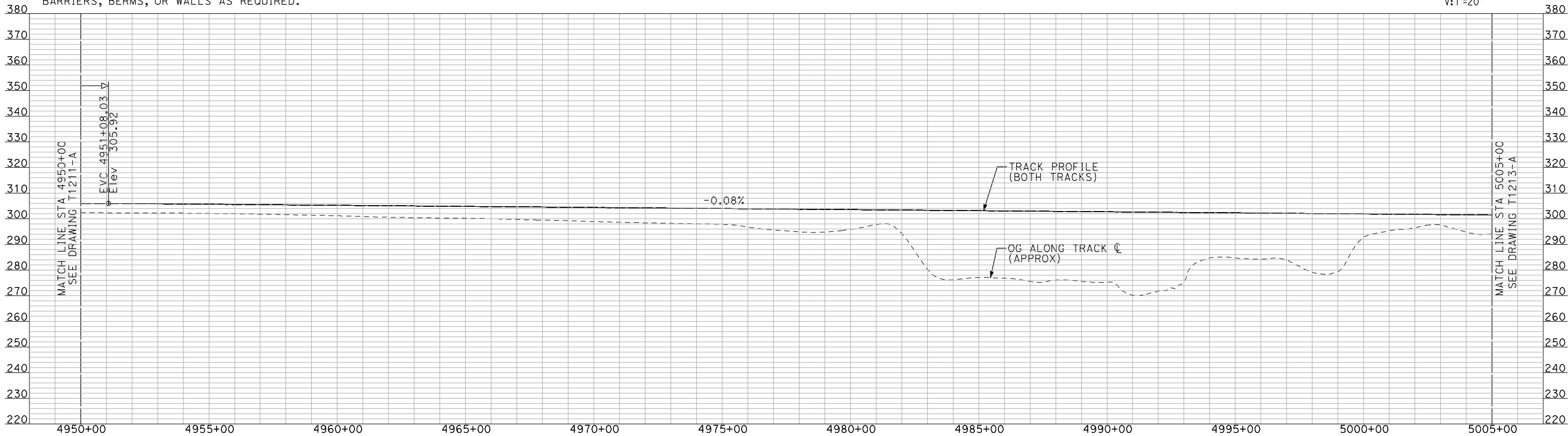
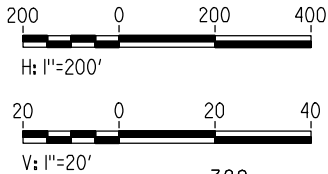
CONTRACT NO.
HSR06-007
DRAWING NO.
T1211-A
SCALE
AS SHOWN
SHEET NO.
OF

7/21/2011 12:02:54 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF AVE 24\MF-T-1212-A.dgn machadoe



- NOTES:
- ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 - TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

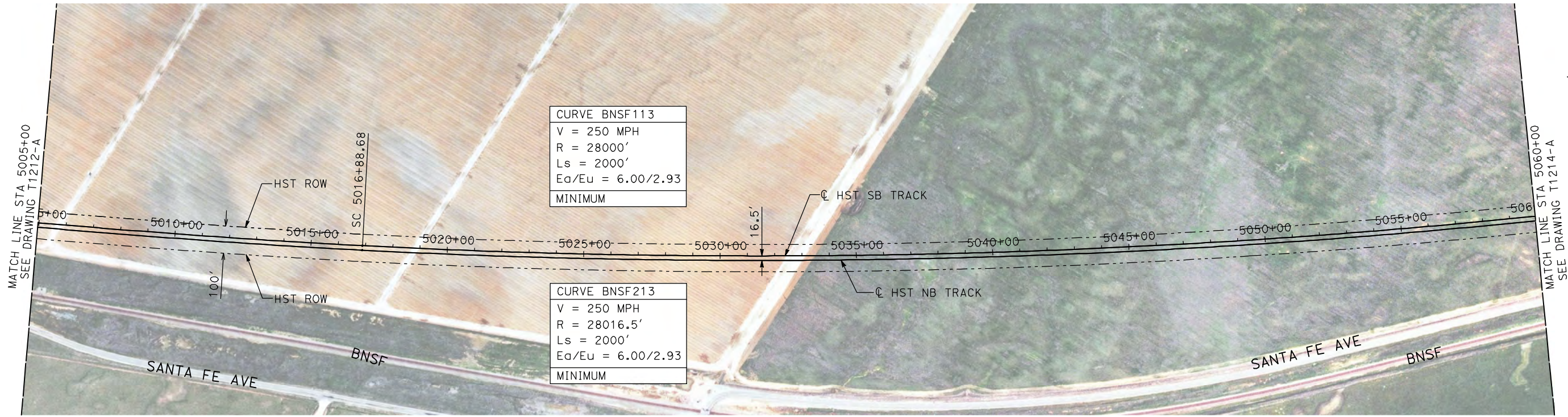


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 4950+00 TO STA 5005+00

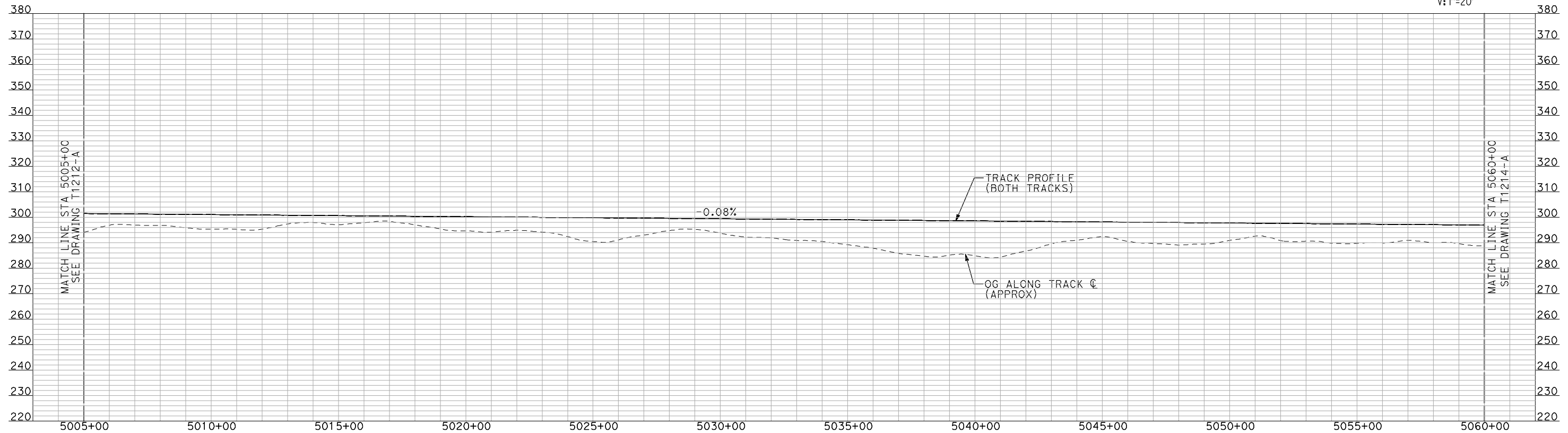
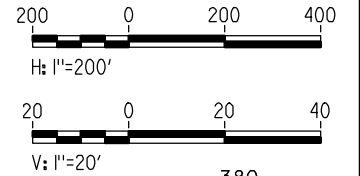
CONTRACT NO. HSR06-007
DRAWING NO. T1212-A
SCALE AS SHOWN
SHEET NO. ### OF ###

7/21/2011 12:03:37 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\bnsf_ave 21\MF-T-1213-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL

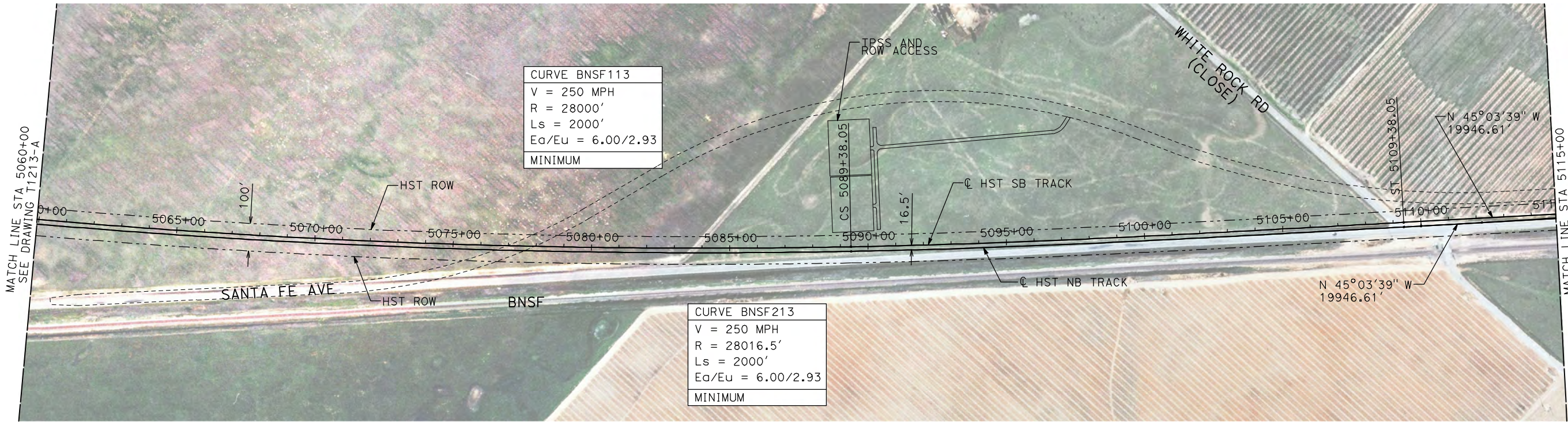


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5005+00 TO STA 5060+00

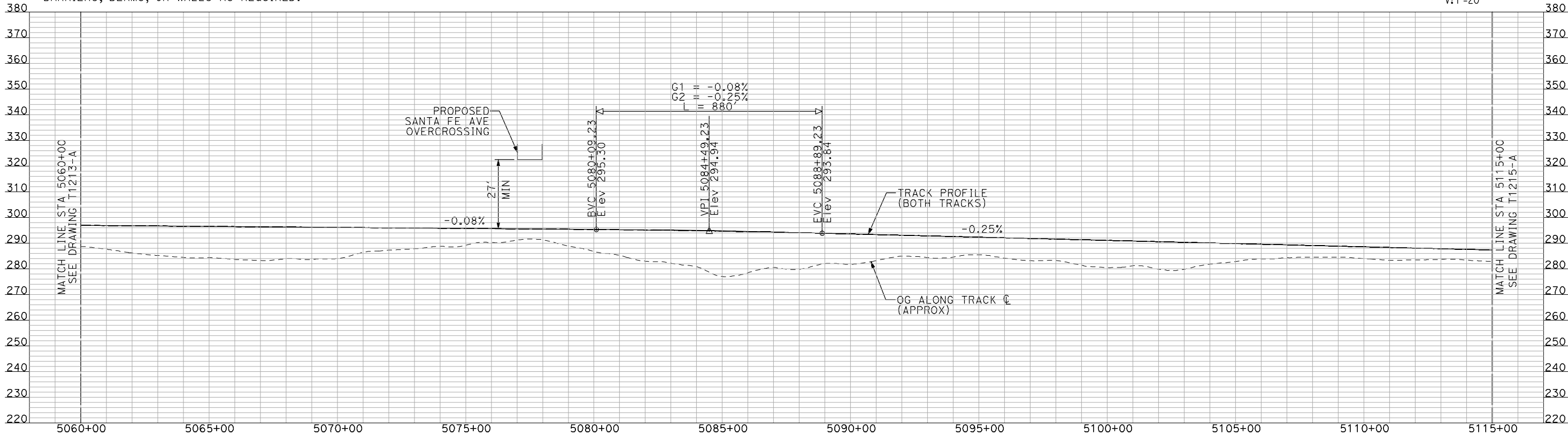
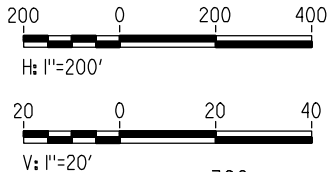
CONTRACT NO. HSR06-007
DRAWING NO. T1213-A
SCALE AS SHOWN
SHEET NO. ### OF ###

7/21/2011 12:04:59 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\bnsf_ave_21\WF-T-1214-A.dgn machadoc



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



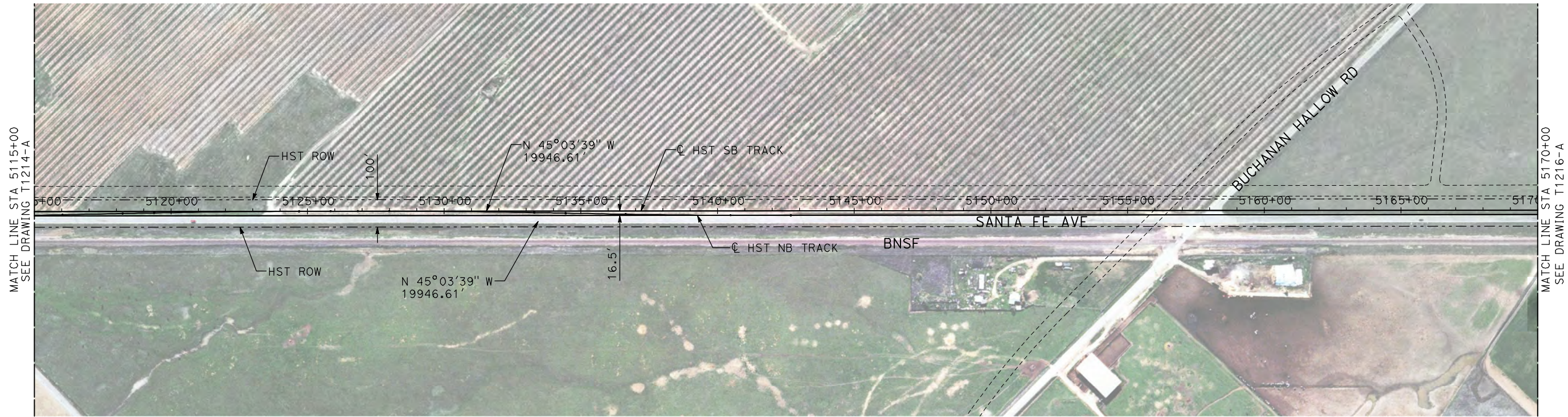
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

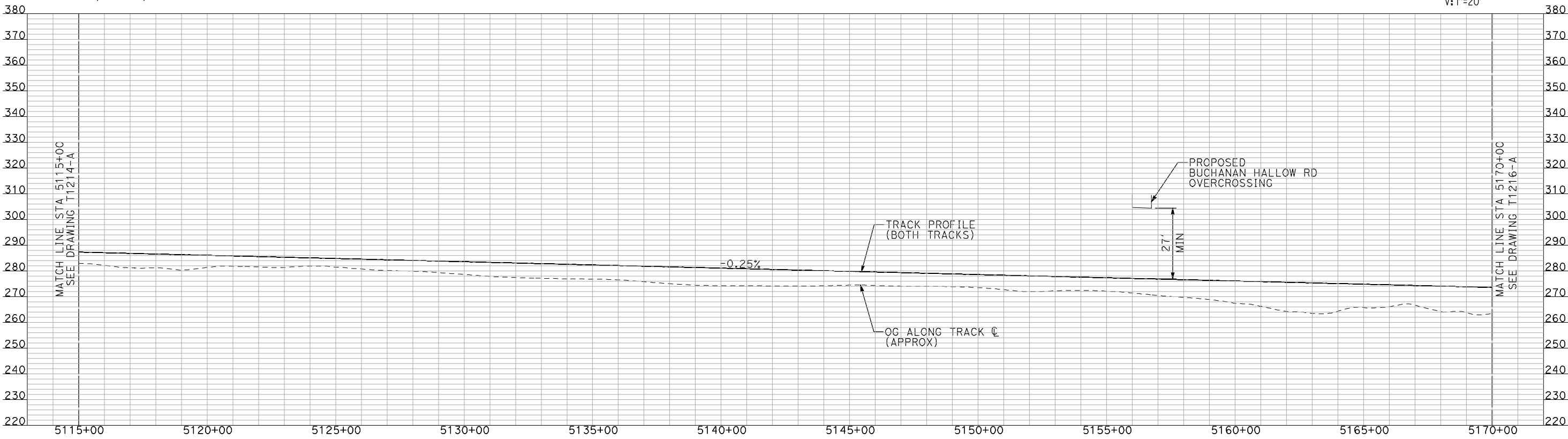
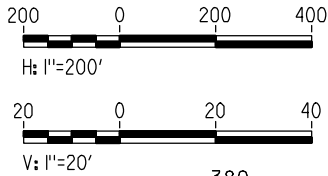
BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5060+00 TO STA 5115+00

CONTRACT NO.
HSR06-007
DRAWING NO.
T1214-A
SCALE
AS SHOWN
SHEET NO.
OF

7/21/2011 12:06:27 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\bnsf_ave 21\WF-T-1215-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

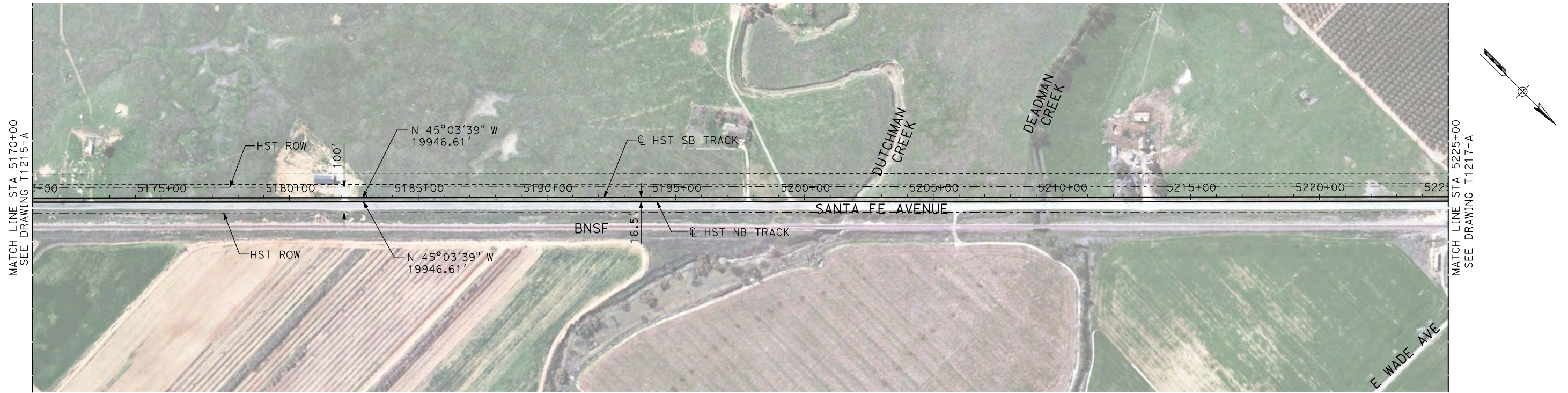
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5115+00 TO STA 5170+00

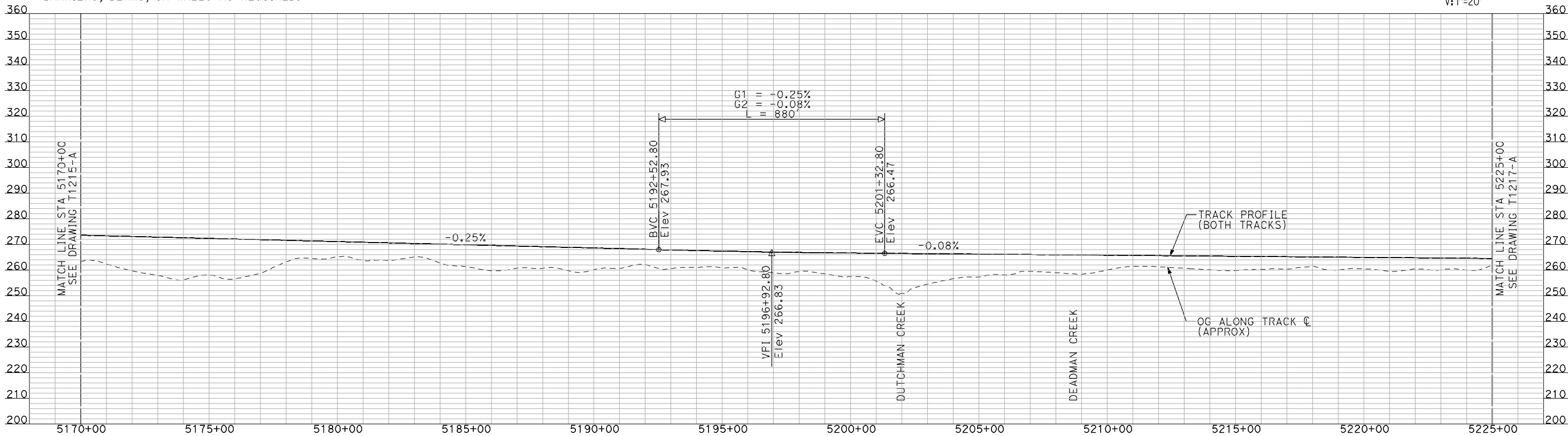
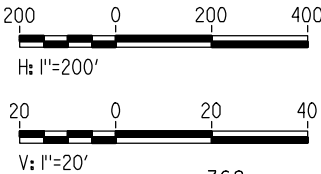
CONTRACT NO.
HSR06-007
DRAWING NO.
T1215-A
SCALE
AS SHOWN
SHEET NO.
OF

7/21/2011 12:01:13 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\bnsf_ave 21\WF-T-1216-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



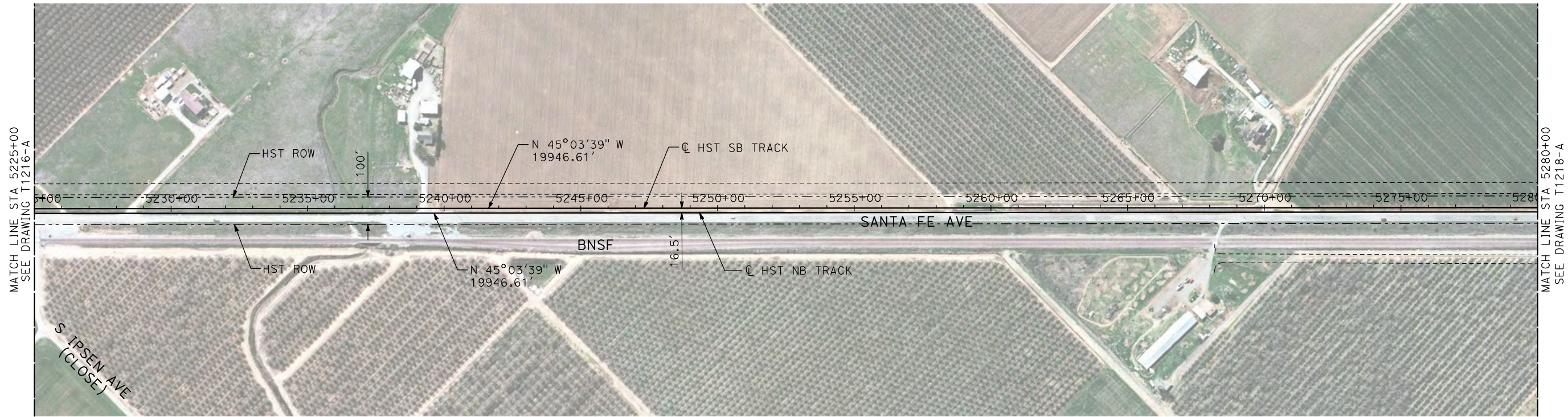
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5170+00 TO STA 5225+00

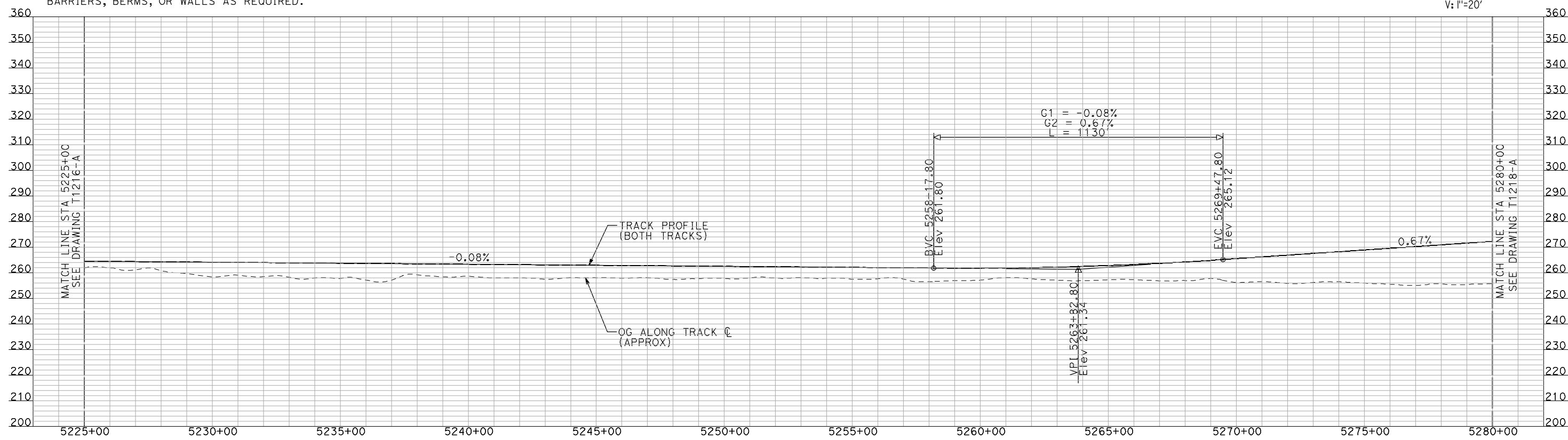
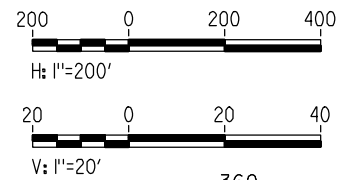
CONTRACT NO. HSR06-007
DRAWING NO. T1216-A
SCALE AS SHOWN
SHEET NO. ### OF ###

7/21/2011 12:07:59 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\bnsf_ave 21\MF-T-1217-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

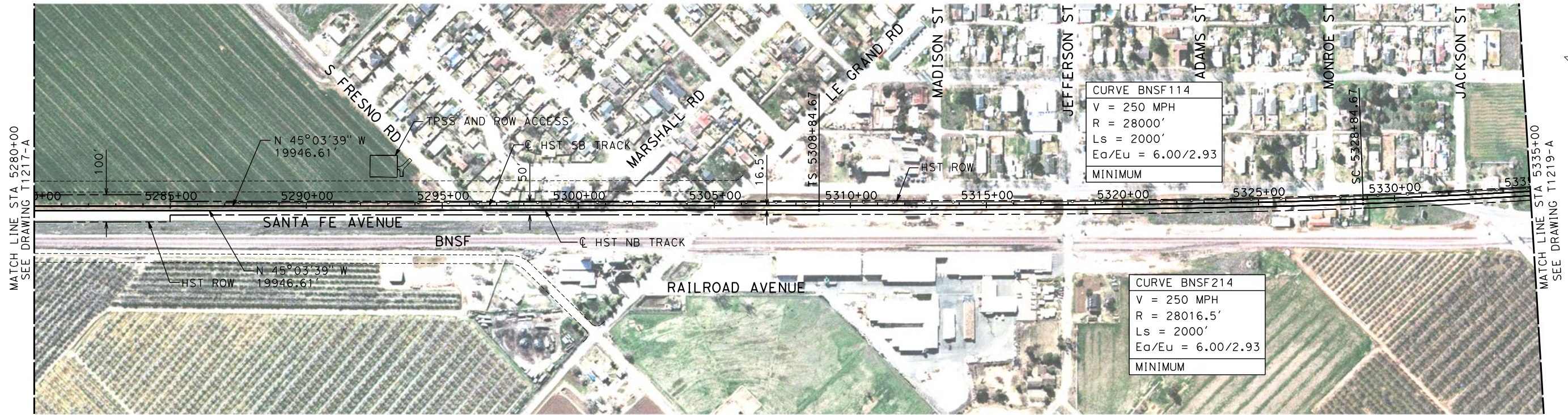


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5225+00 TO STA 5280+00

CONTRACT NO.
HSR06-007
DRAWING NO.
T1217-A
SCALE
AS SHOWN
SHEET NO.
OF

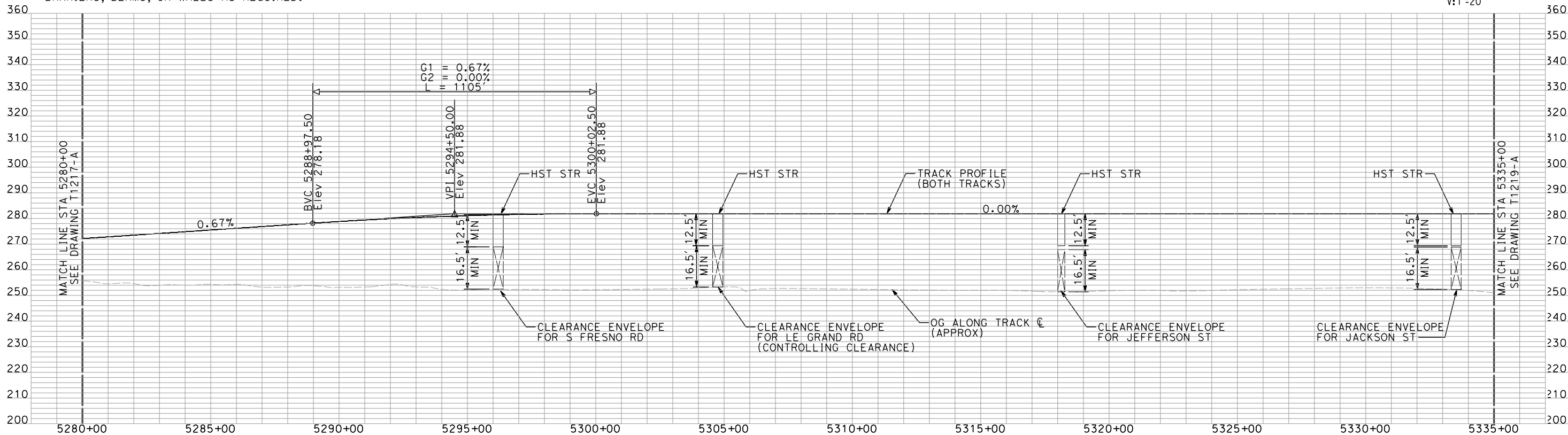
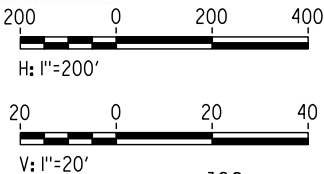
3/25/2012 3:17:50 PM \\usscrlfp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Sheet\DEIR\BNSF AVE 21\WF-T-1218-A.dgn

shieldsa



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	02/17/12				NOISE BARRIER LIMITS

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

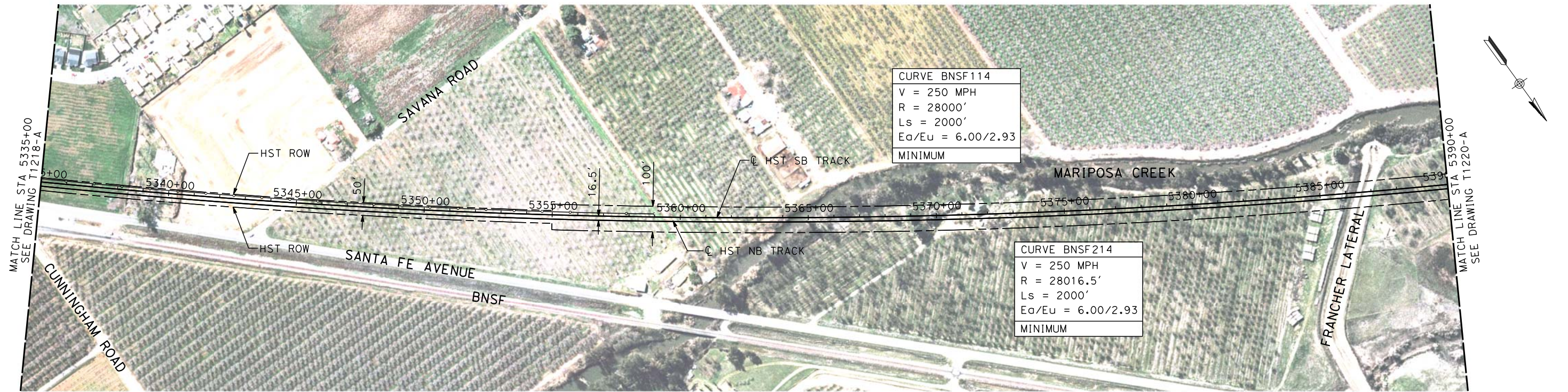


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5280+00 TO STA 5335+00

CONTRACT NO. HSR06-007
DRAWING NO. T1218-A
SCALE AS SHOWN
SHEET NO. ### OF ###

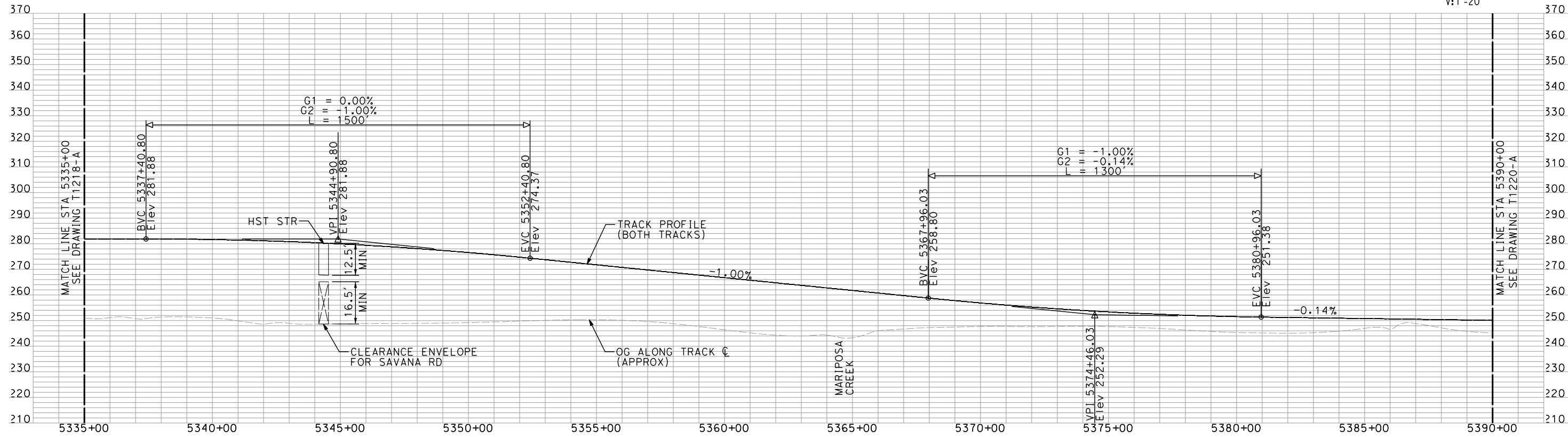
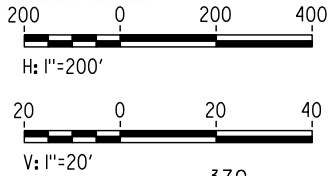
3/25/2012 3:21:25 PM \\usscrt1fp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Sheet\DEIR\BNSF AVE 21\WF-T-1219-A.dgn

shieldsa




- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.
 3. FOR CONTROLLING CLEARANCE, SEE T1218-A.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

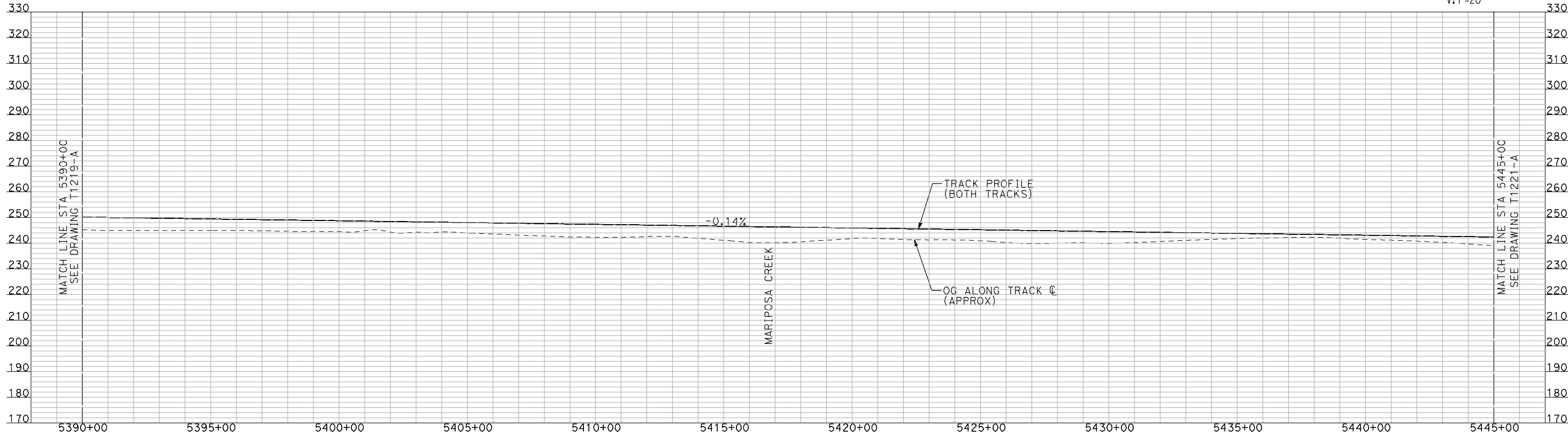
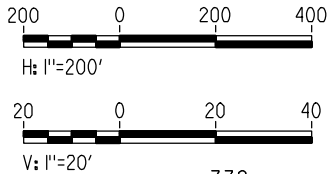
					DESIGNED BY A. SHIELDS	RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION	<div><div>AECOM</div><div>Technical Services, Inc. 2020 L Street, Suite 300 Sacramento, CA 95811</div><div>CH2MHILL</div></div>	<div><div></div><div>CALIFORNIA HIGH-SPEED RAIL AUTHORITY</div></div>	CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO			CONTRACT NO. HSR06-007
					DRAWN BY H. SULLIVAN				DRAWING NO. T1219-A			
					CHECKED BY A. BOONE				SCALE AS SHOWN			
					IN CHARGE A. BOONE				SHEET NO. ### OF ###			
					DATE 07/27/2011							
REV	DATE	BY	CHK	APP	DESCRIPTION				BNSF MERCED CONNECTION AVE 21 / AVE 24 PLAN AND PROFILE STA 5335+00 TO STA 5390+00			

7/21/2011 12:10:11 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\bnsf_ave 21\WF-T-1220-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



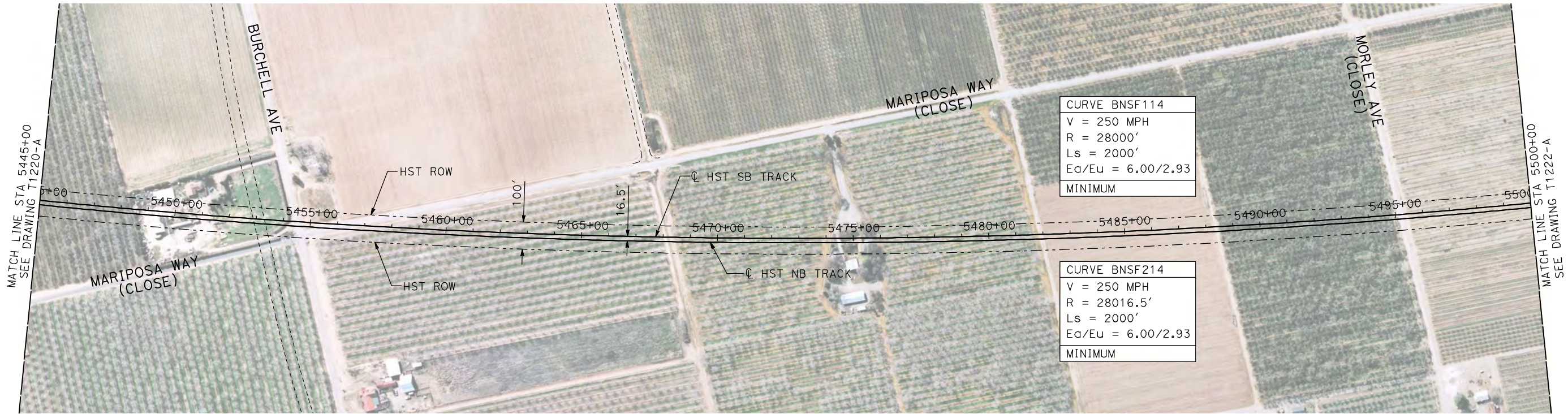
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5390+00 TO STA 5445+00

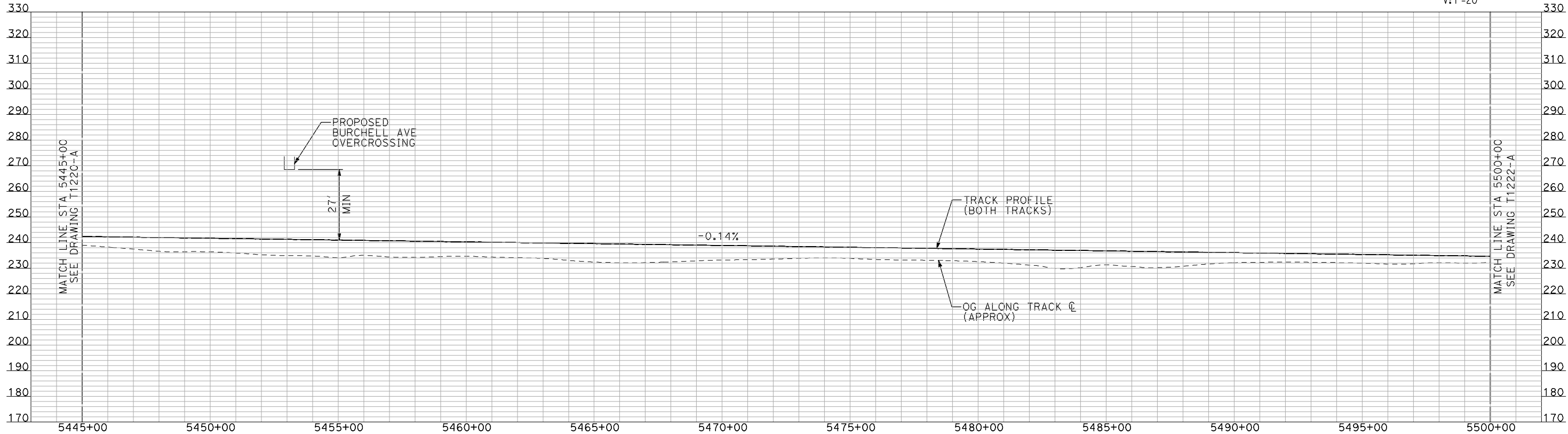
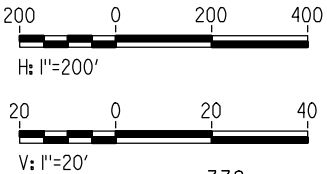
CONTRACT NO.
HSR06-007
DRAWING NO.
T1220-A
SCALE
AS SHOWN
SHEET NO.
OF

7/21/2011 12:10:53 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\bnsf_ave 21\WF-T-1221-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5445+00 TO STA 5500+00

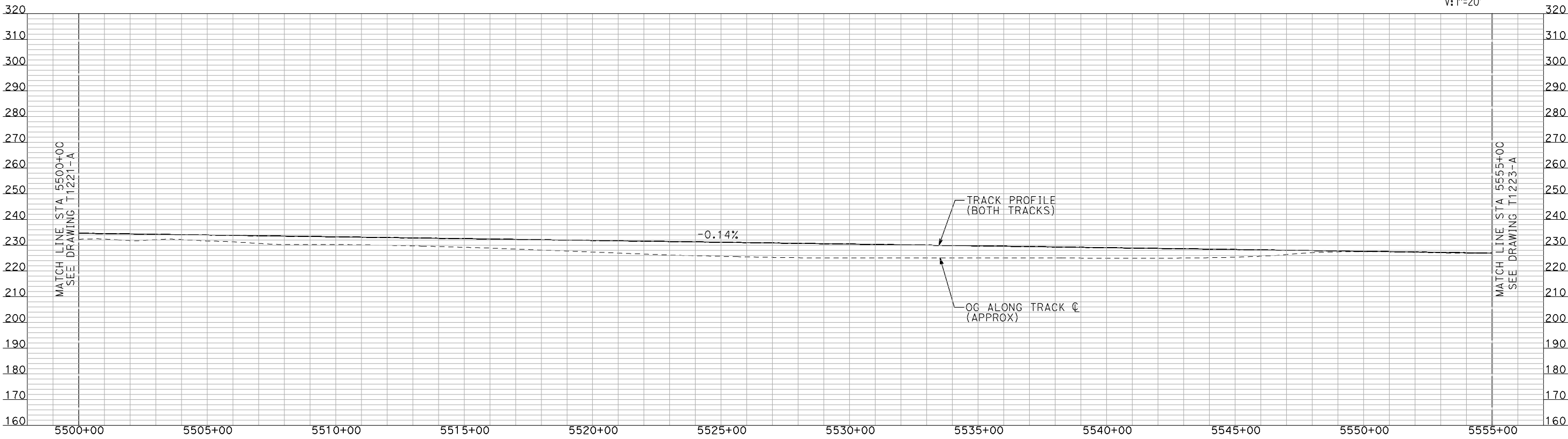
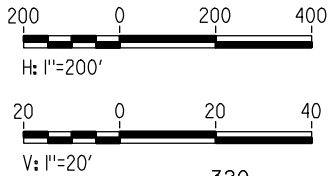
CONTRACT NO. HSR06-007
DRAWING NO. T1221-A
SCALE AS SHOWN
SHEET NO. ### OF ###

7/21/2011 12:11:33 PM i:\chsr\60022962\Task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\bnsf_ave 21\MF-T-1222-A.dgn machadoc




- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN

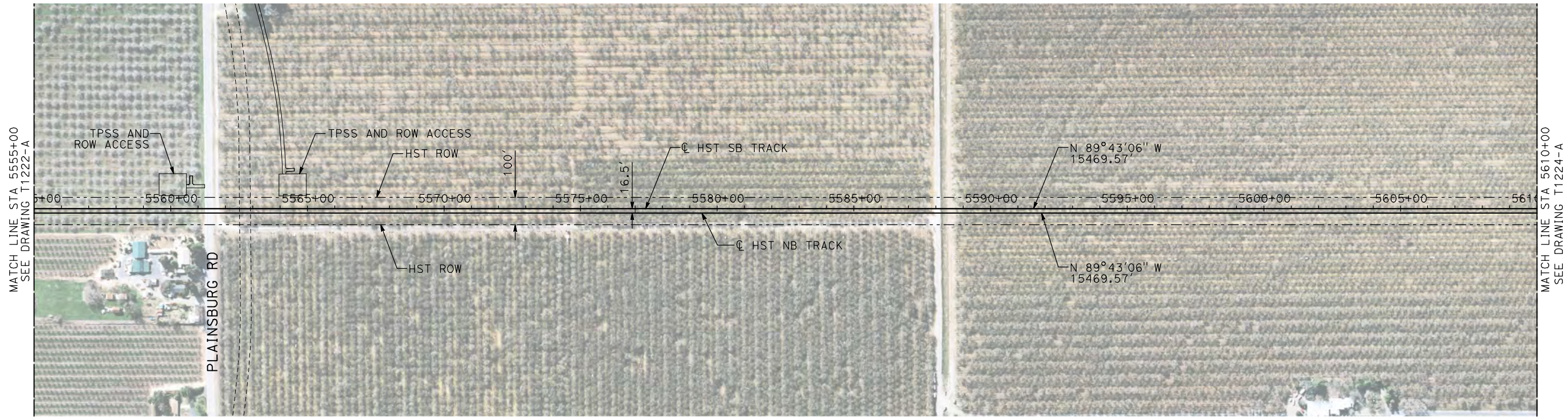


PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

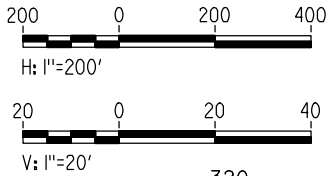
						DESIGNED BY A. SHIELDS	RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION	<div>AECOM Technical Services, Inc. 2020 L Street, Suite 300 Sacramento, CA 95811</div> <div>CH2MHILL</div>	<div>CALIFORNIA HIGH-SPEED RAIL AUTHORITY</div>	CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO BNSF MERCED CONNECTION AVE 21 / AVE 24 PLAN AND PROFILE STA 5500+00 TO STA 5555+00	CONTRACT NO. HSR06-007
					DRAWN BY H. SULLIVAN	DRAWING NO. T1222-A					
					CHECKED BY A. BOONE	SCALE AS SHOWN					
					IN CHARGE A. BOONE	SHEET NO. ### OF ###					
					DATE 07/20/2011						
REV	DATE	BY	CHK	APP	DESCRIPTION						

7/21/2011 12:12:16 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\bnstf_ave 21\WF-T-1223-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



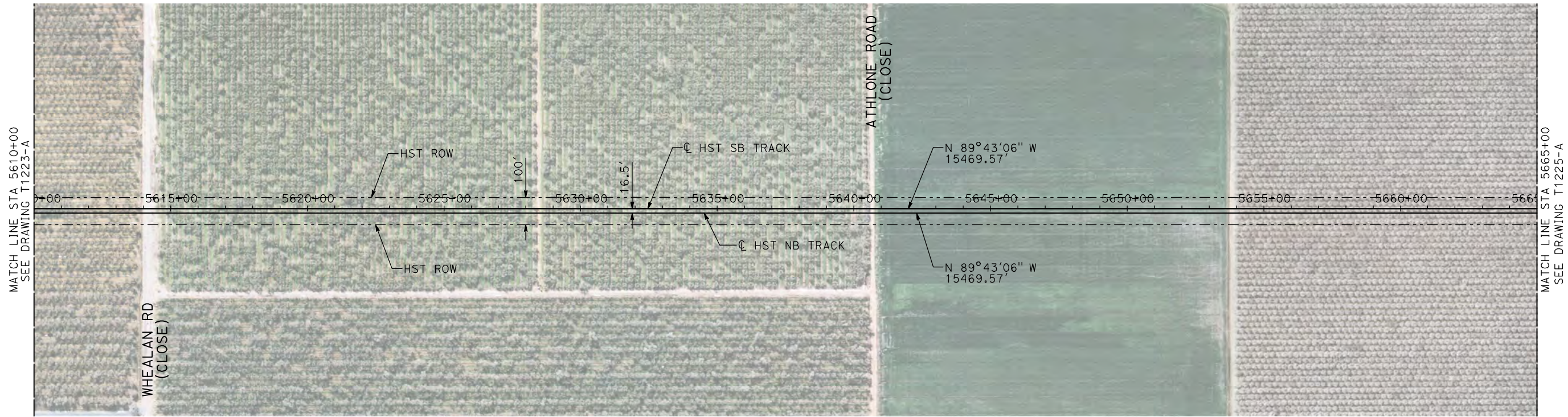
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5555+00 TO STA 5610+00

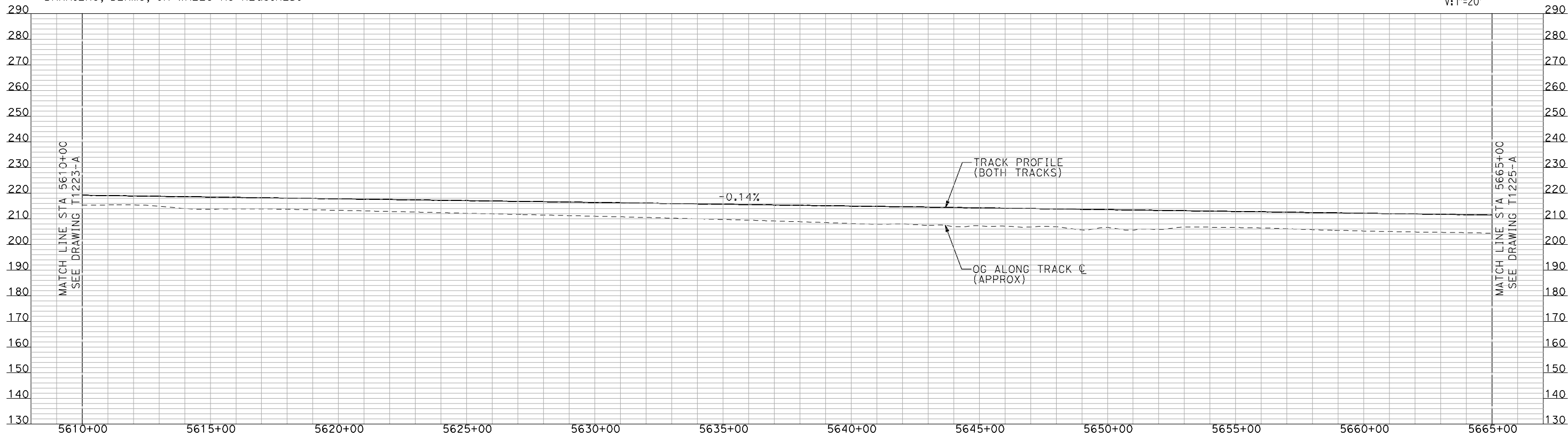
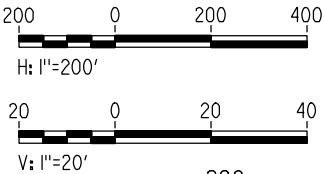
CONTRACT NO. HSR06-007
DRAWING NO. T1223-A
SCALE AS SHOWN
SHEET NO. ### OF ###

7/21/2011 12:12:57 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\bnsf_ave 21\WF-T-1224-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



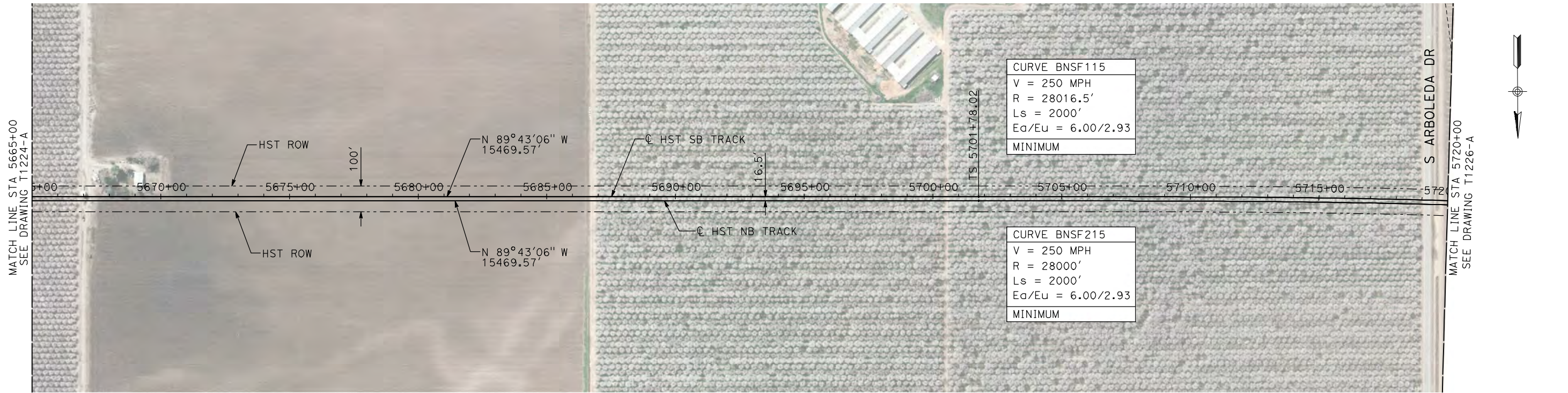
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5610+00 TO STA 5665+00

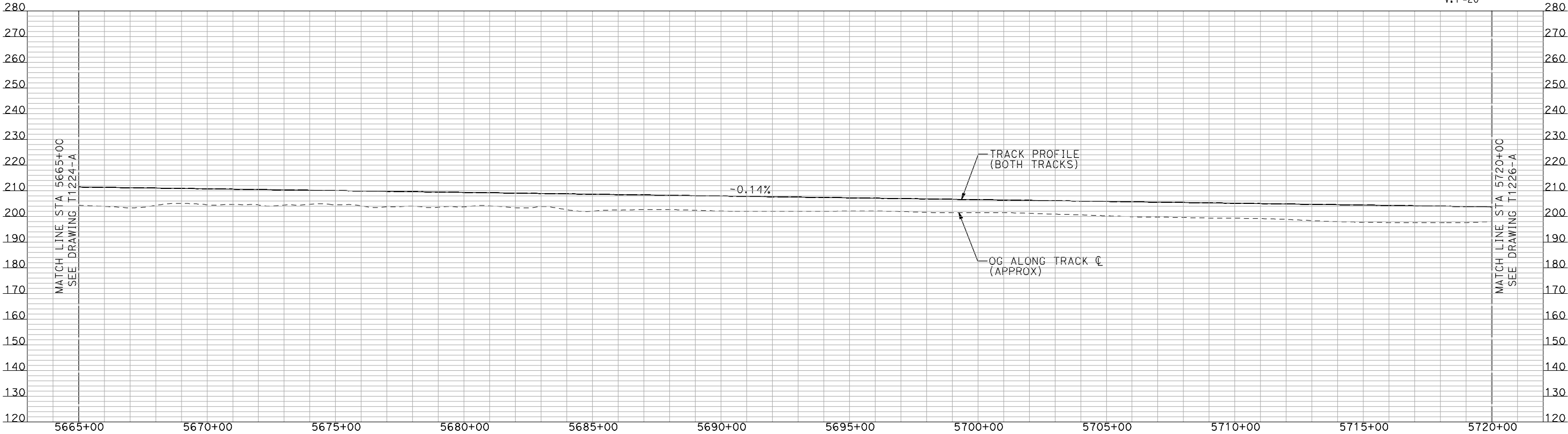
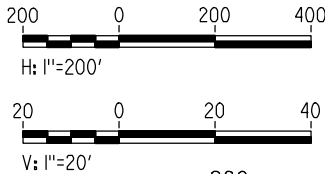
CONTRACT NO. HSR06-007
DRAWING NO. T1224-A
SCALE AS SHOWN
SHEET NO. ### OF ###

7/21/2011 12:13:37 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\bnsf_ave 21\WF-T-1225-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



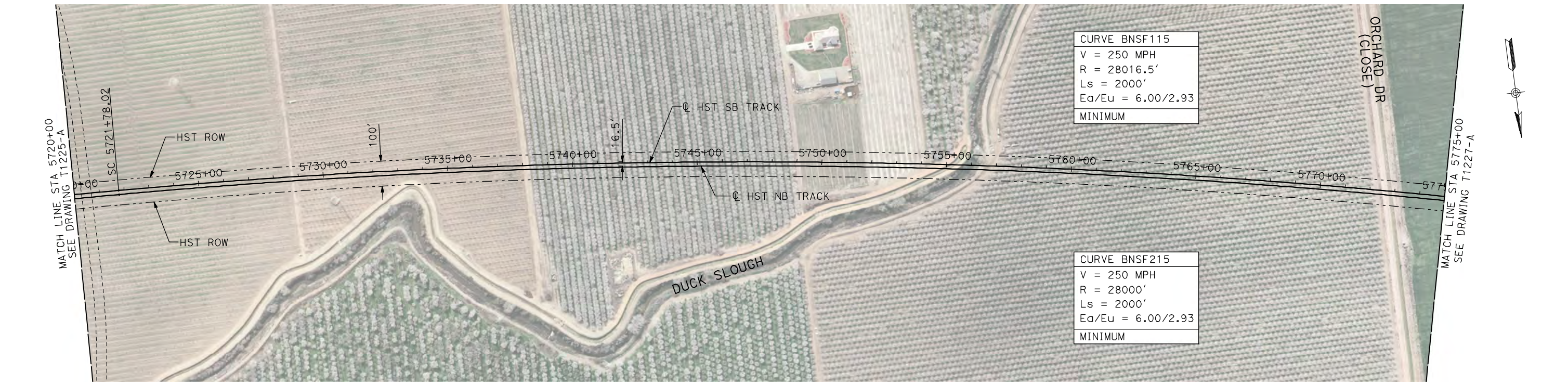
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5665+00 TO STA 5720+00

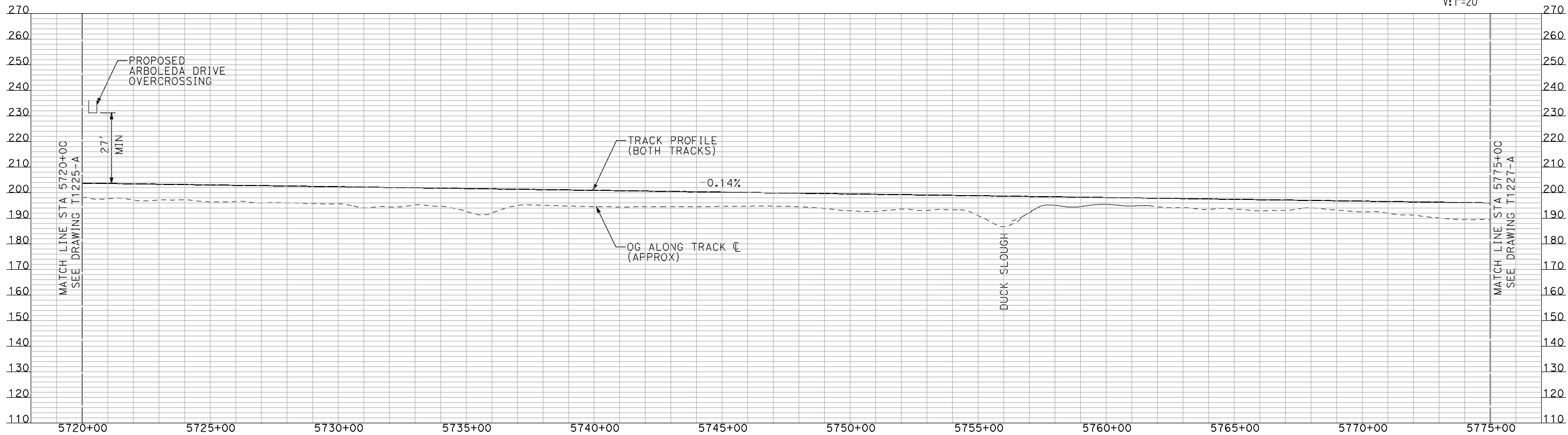
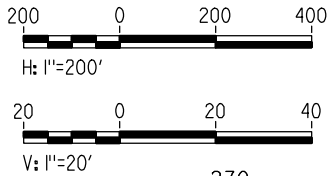
CONTRACT NO. HSR06-007
DRAWING NO. T1225-A
SCALE AS SHOWN
SHEET NO. ### OF ###

7/21/2011 12:14:19 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\bnsf_ave 21\MF-T-1226-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



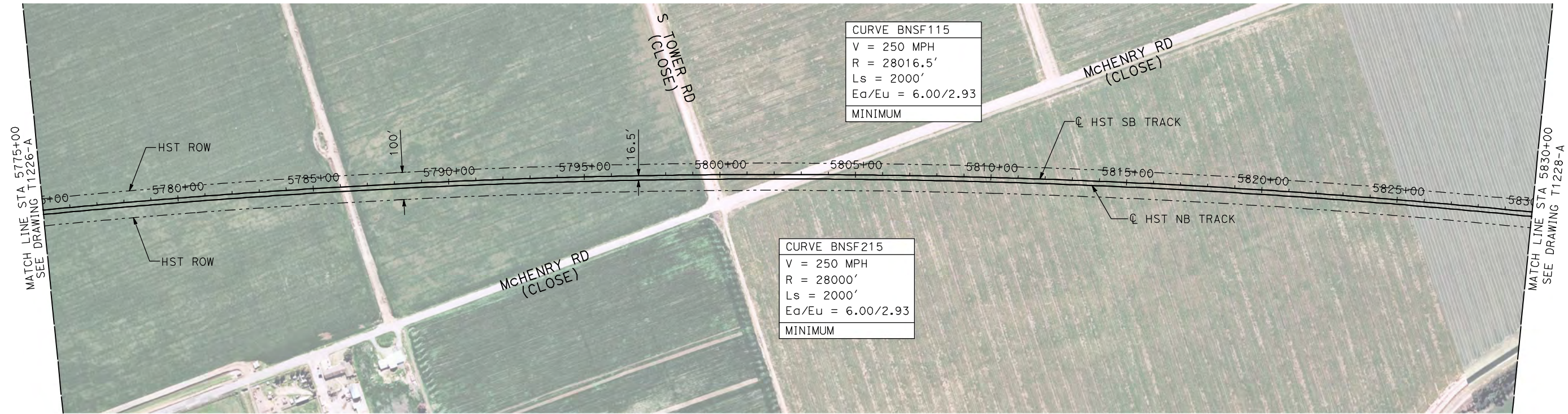
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5720+00 TO STA 5775+00

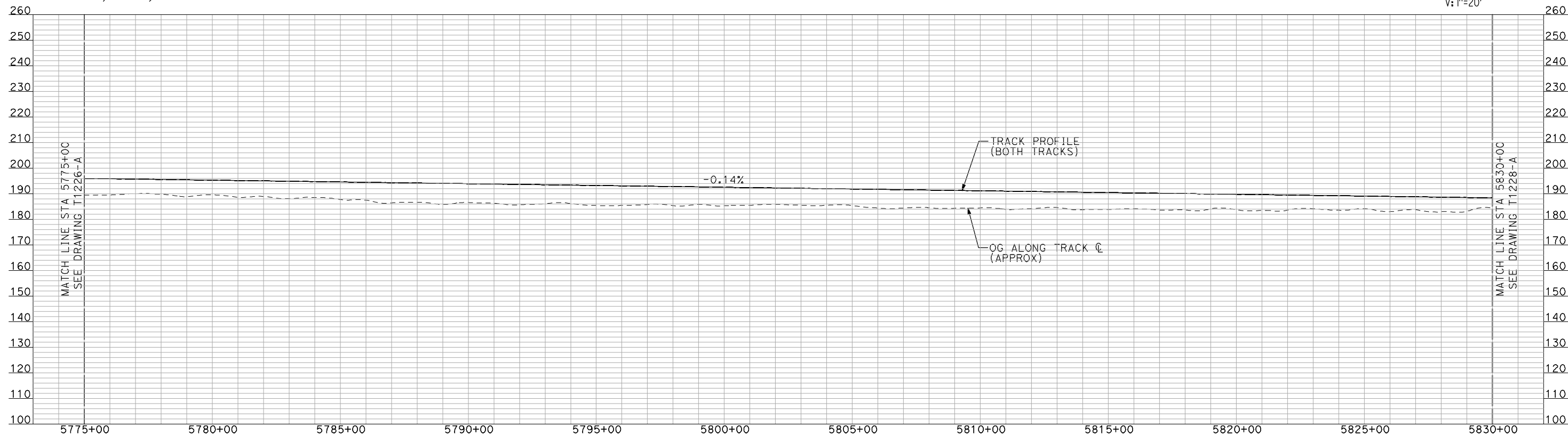
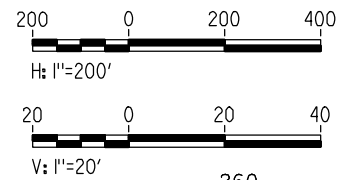
CONTRACT NO. HSR06-007
DRAWING NO. T1226-A
SCALE AS SHOWN
SHEET NO. ### OF ###

7/21/2011 12:15:03 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\bnsf_ave 21\WF-T-1227-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL

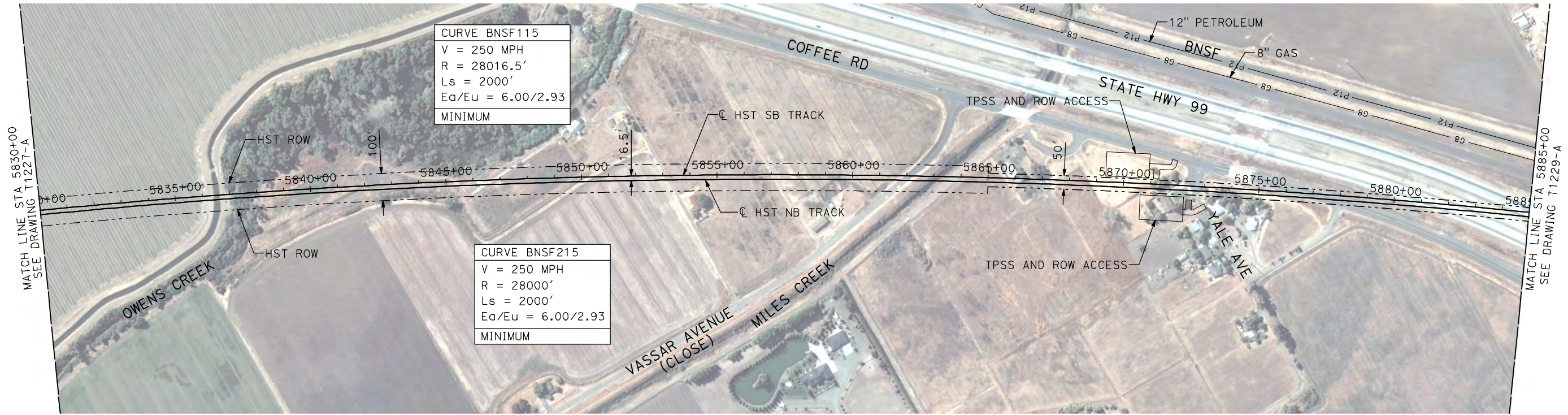


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

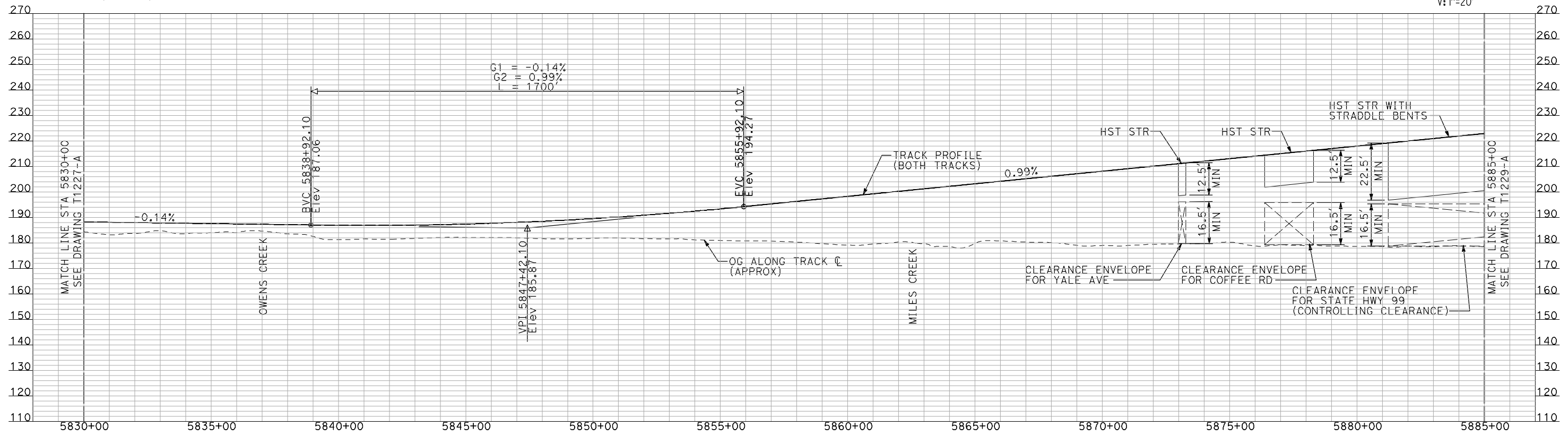
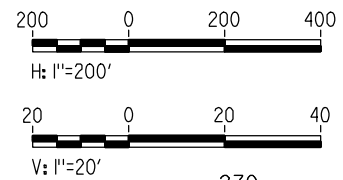
BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5775+00 TO STA 5830+00

CONTRACT NO. HSR06-007
DRAWING NO. T1227-A
SCALE AS SHOWN
SHEET NO. ### OF ###

7/21/2011 12:15:43 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\bnsf_ave 21\WF-T-1228-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

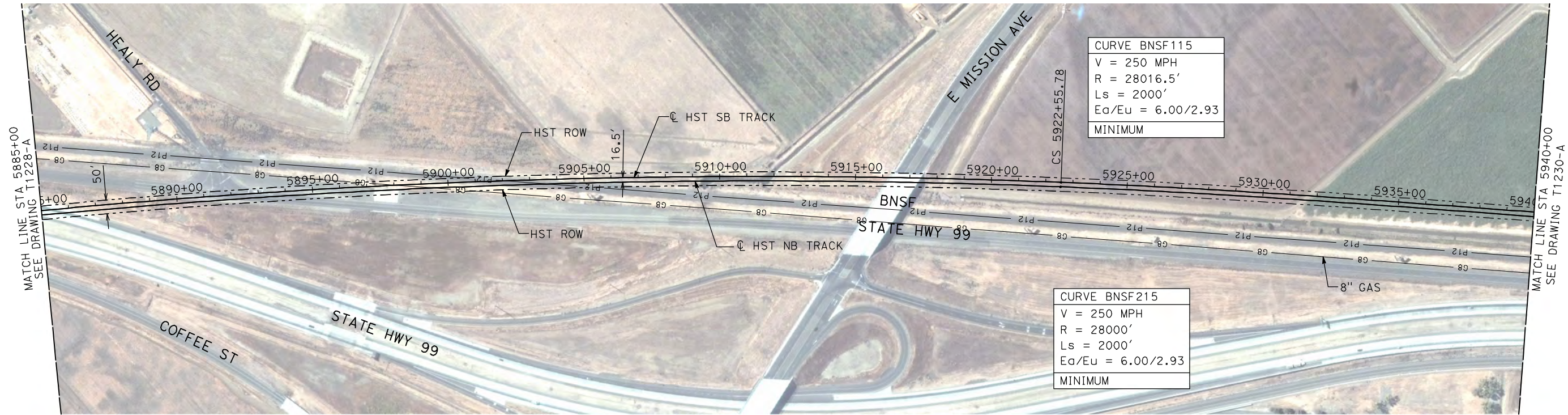
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5830+00 TO STA 5885+00

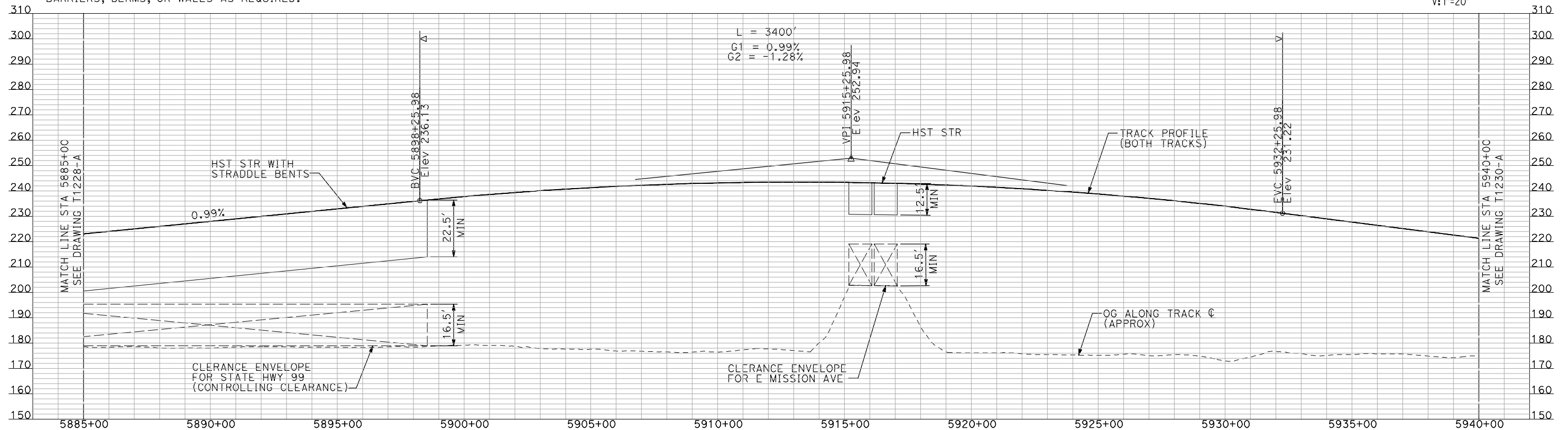
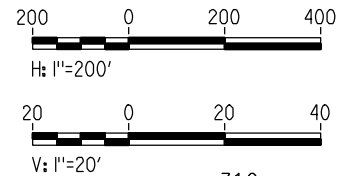
CONTRACT NO.
HSR06-007
DRAWING NO.
T1228-A
SCALE
AS SHOWN
SHEET NO.
OF

7/21/2011 12:16:23 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\bnsf_ave 21\WF-T-1229-A.dgn machadoe



- NOTES:
- ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 - TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

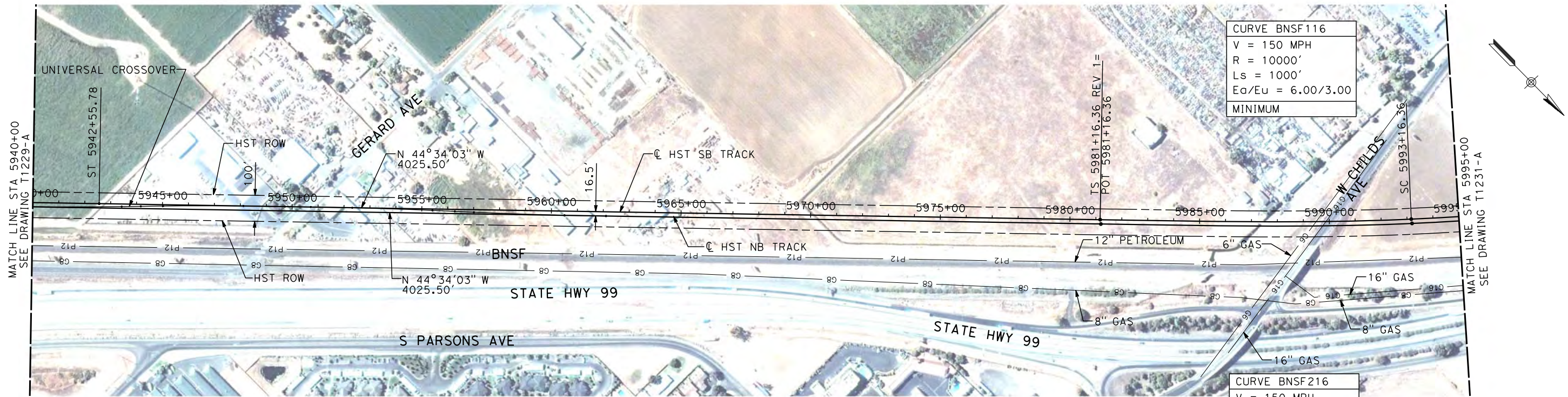
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5885+00 TO STA 5940+00

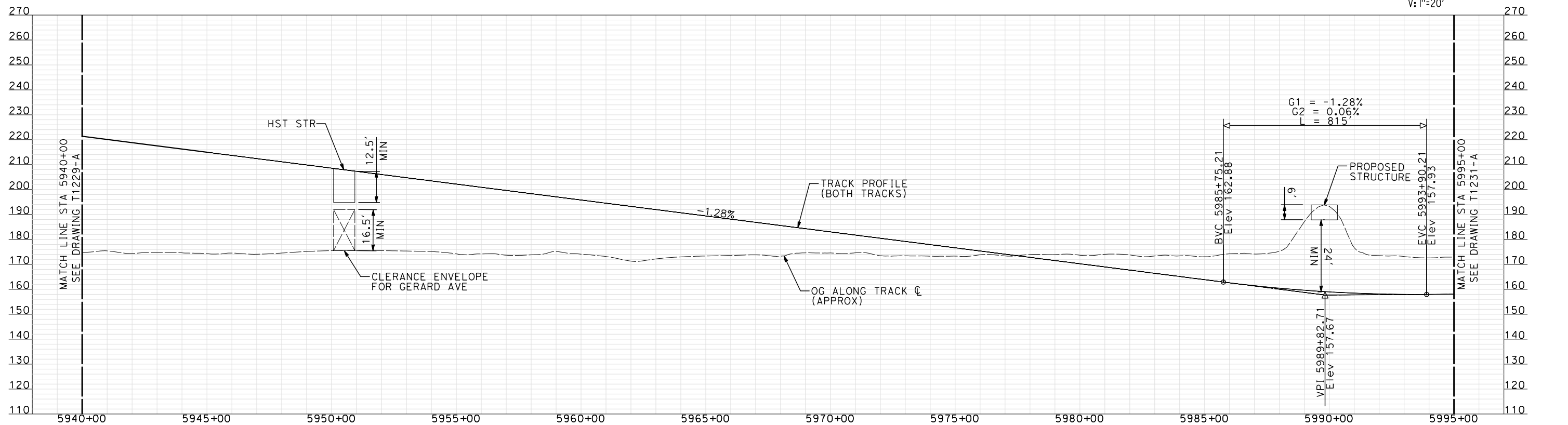
CONTRACT NO.
HSR06-007
DRAWING NO.
T1229-A
SCALE
AS SHOWN
SHEET NO.
OF

1/10/2012 11:59:50 AM \\usscr1fp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Design\SHIELDS\Rev 1 - 15% Plans\bnshf ave 21\WF-T-1230-A.dgn
shieldsa



NOTE:
ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES
BASED ON RECORD DRAWINGS AND ARE SHOWN FOR
INFORMATIONAL PURPOSES ONLY.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

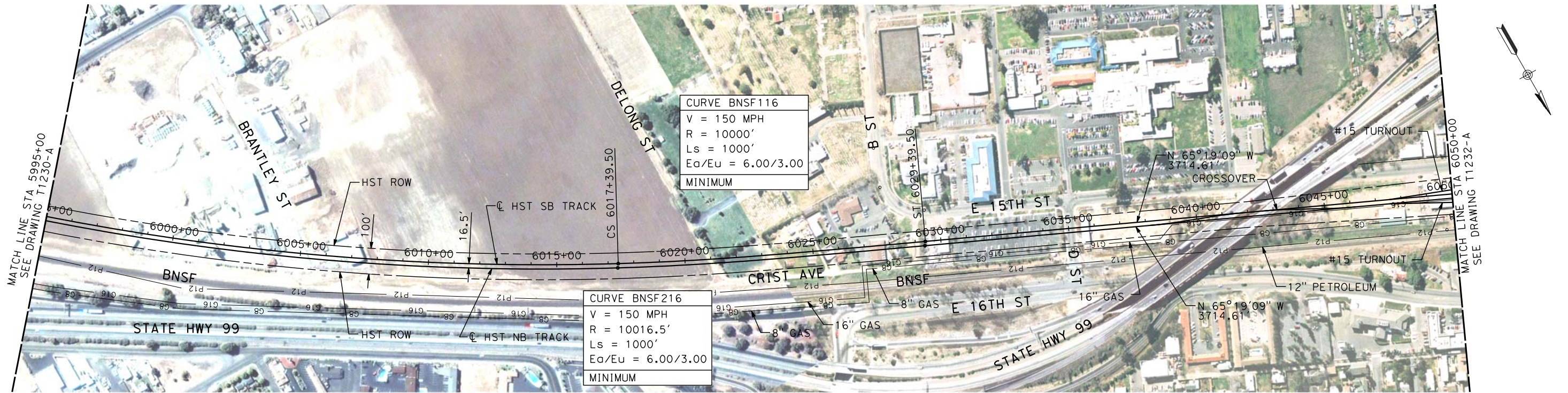


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5940+00 TO STA 5995+00

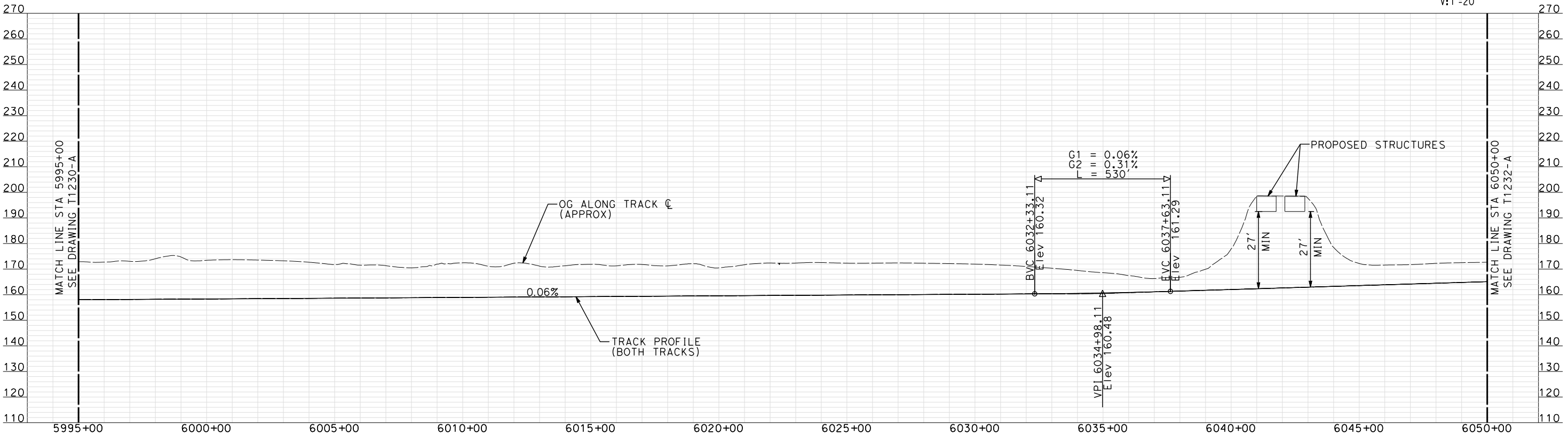
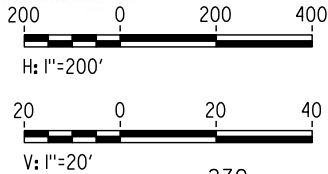
CONTRACT NO. HSR06-007
DRAWING NO. T1230-A
SCALE AS SHOWN
SHEET NO. ### OF ###

3/25/2012 4:01:39 PM \\usscrifp001\Cadd\CHSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Sheet\DEIR\BNSF_AVE_21\MF-T-1231-A.dgn
shieldsa



PLAN

NOTE:
ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES
BASED ON RECORD DRAWINGS AND ARE SHOWN FOR
INFORMATIONAL PURPOSES ONLY.



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

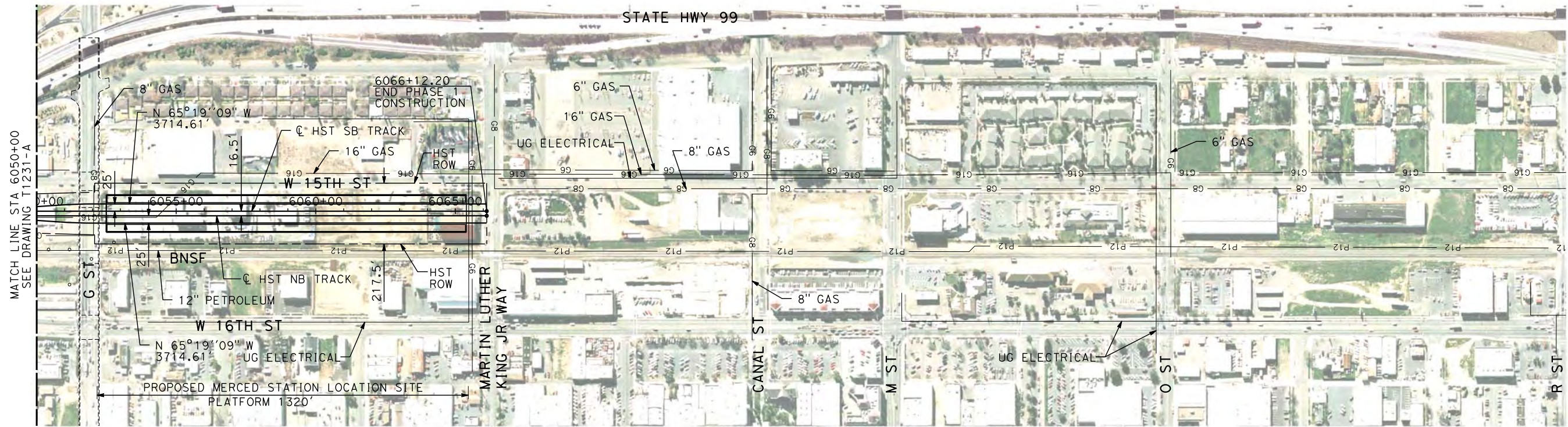
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF MERCED CONNECTION
AVE 21 / AVE 24
PLAN AND PROFILE
STA 5995+00 TO STA 6050+00

CONTRACT NO.
HSR06-007
DRAWING NO.
T1231-A
SCALE
AS SHOWN
SHEET NO.
OF

1/10/2012 3:11:15 PM \\usscrifp001\Cadd\ChSR\60022962\Task-03_Merced-Fresno\CADD\Rail\Design\SHIELDS\Rev 1 - 15% Plans\bsnf_ave 21\WF-T-1232-A.dgn shieldsa



NOTE:
ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES
BASED ON RECORD DRAWINGS AND ARE SHOWN FOR
INFORMATIONAL PURPOSES ONLY.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION
1	12/12/2011	AS			TRACK REALIGNMENT

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF MERCED CONNECTION

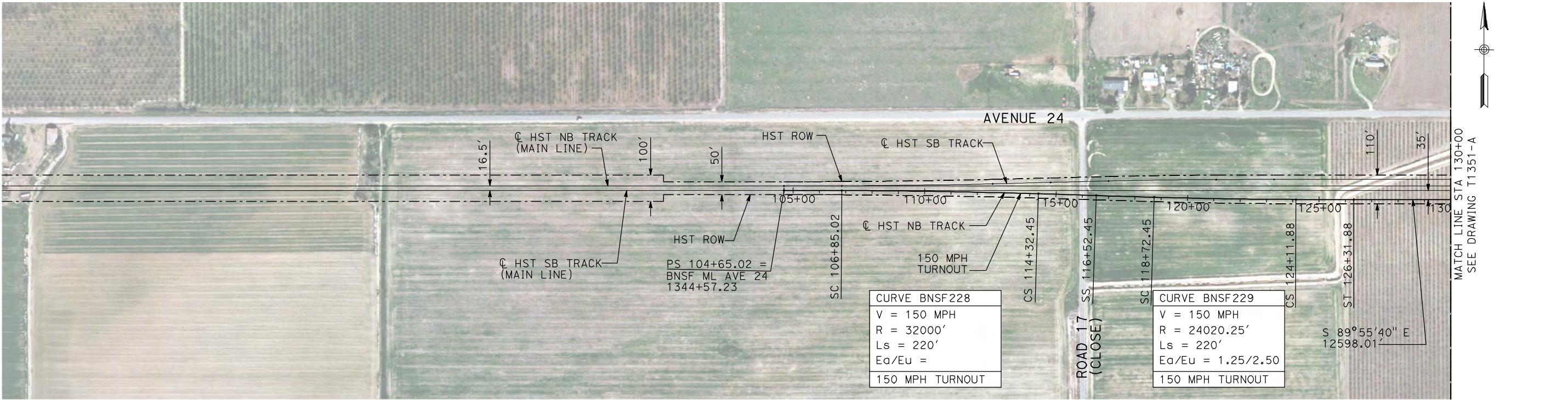
AVE 21 / AVE 24

PLAN AND PROFILE

STA 6050+00 TO STA 6066+12.20

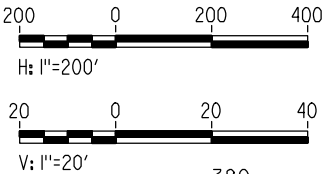
CONTRACT NO. HSR06-007
DRAWING NO. T1232-A
SCALE AS SHOWN
SHEET NO. ### OF ###

7/21/2011 12:21:26 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF AVE 24\WF-T-1350-A.dgn machadoc



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

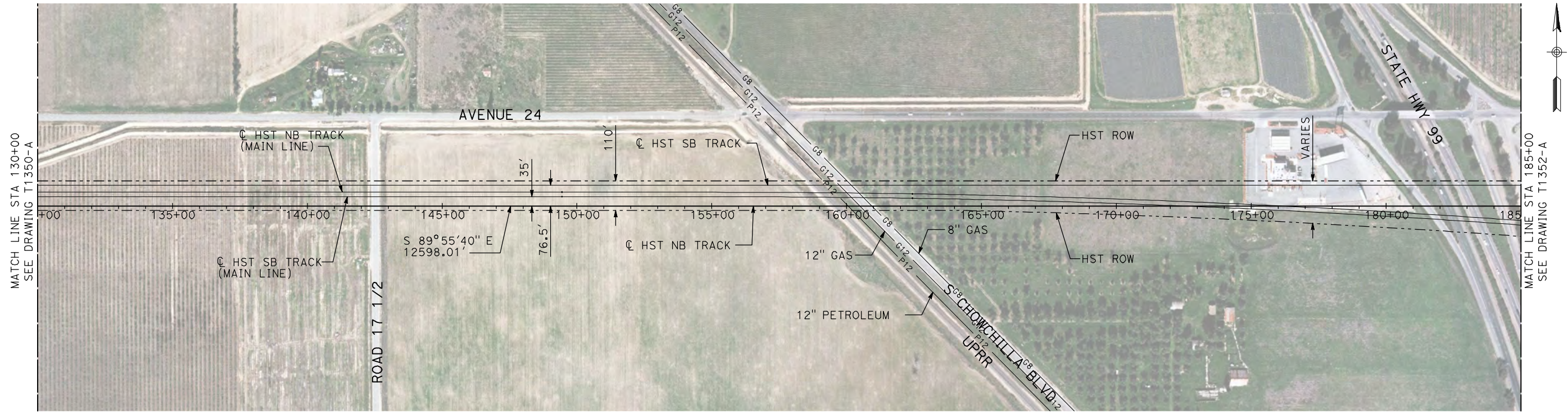


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

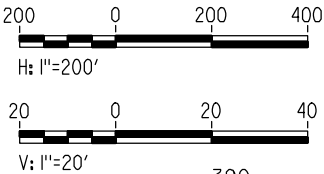
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 104+65.02 TO STA 130+00

CONTRACT NO. HSR06-007
DRAWING NO. T1350-A
SCALE AS SHOWN
SHEET NO. ### OF ###

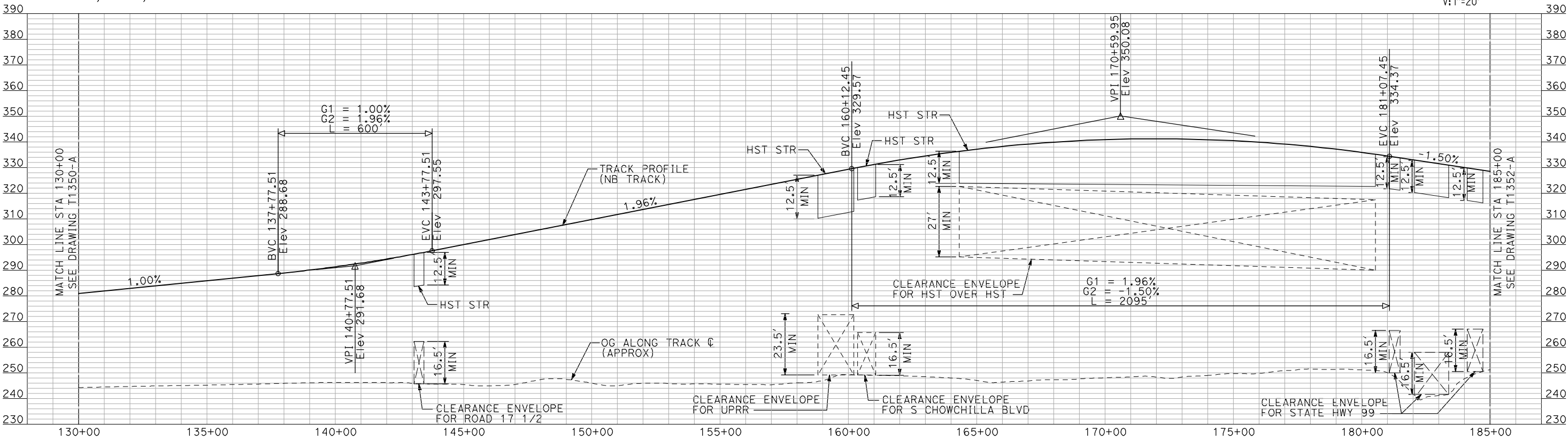
7/21/2011 12:21:55 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF_AVE 24\MF-T-1351-A.dgn
machadoe



PLAN



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

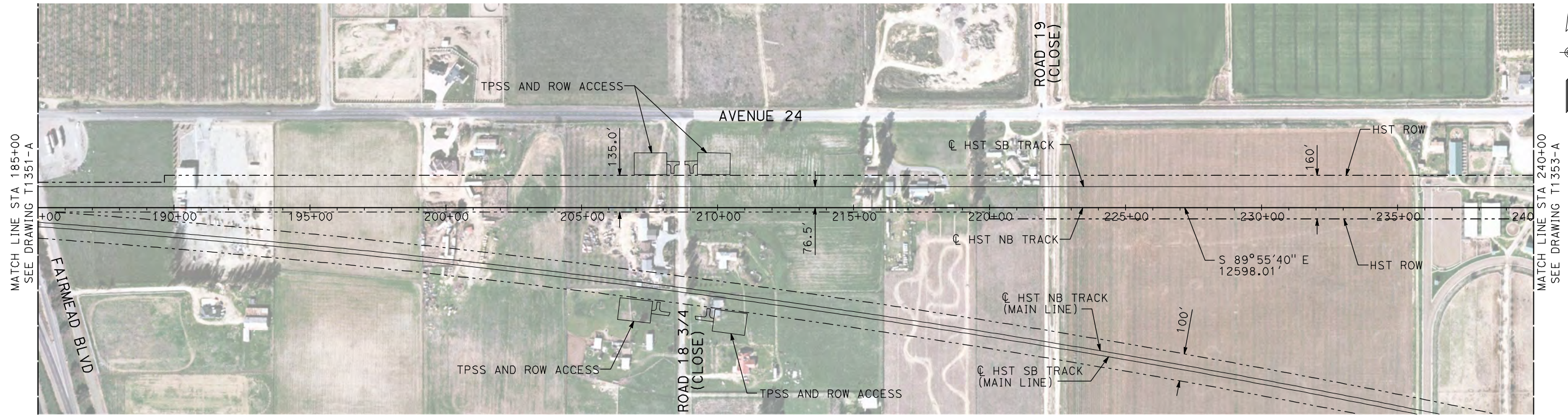
CH2M HILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 130+00 TO STA 185+00

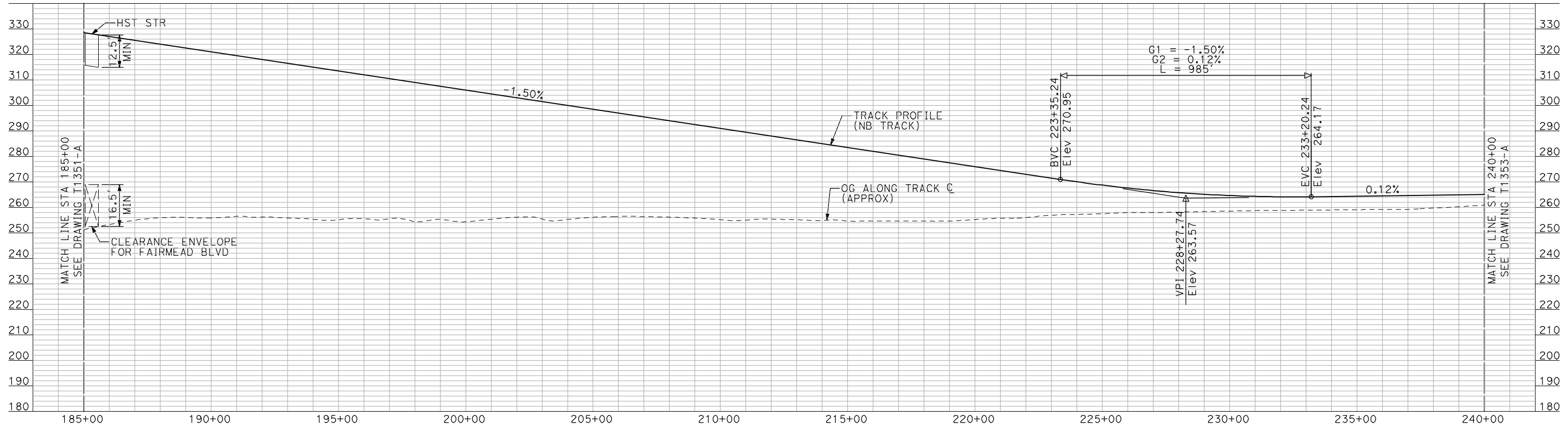
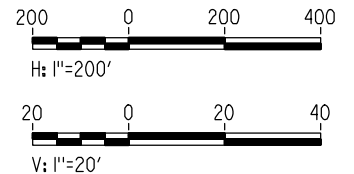
CONTRACT NO. HSR06-007
DRAWING NO. T1351-A
SCALE AS SHOWN
SHEET NO. ### OF ###

7/21/2011 12:22:23 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF_AVE 24\MF-T-1352-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

DESIGNED BY	A. SHIELDS
DRAWN BY	H. SULLIVAN
CHECKED BY	A. BOONE
IN CHARGE	A. BOONE
DATE	07/20/2011

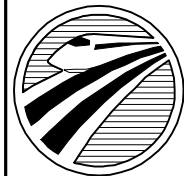
REV	DATE	BY	CHK	APP	### OF ###	DESCRIPTION

DESIGNED BY	A. SHIELDS
DRAWN BY	H. SULLIVAN
CHECKED BY	A. BOONE
IN CHARGE	A. BOONE
DATE	07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



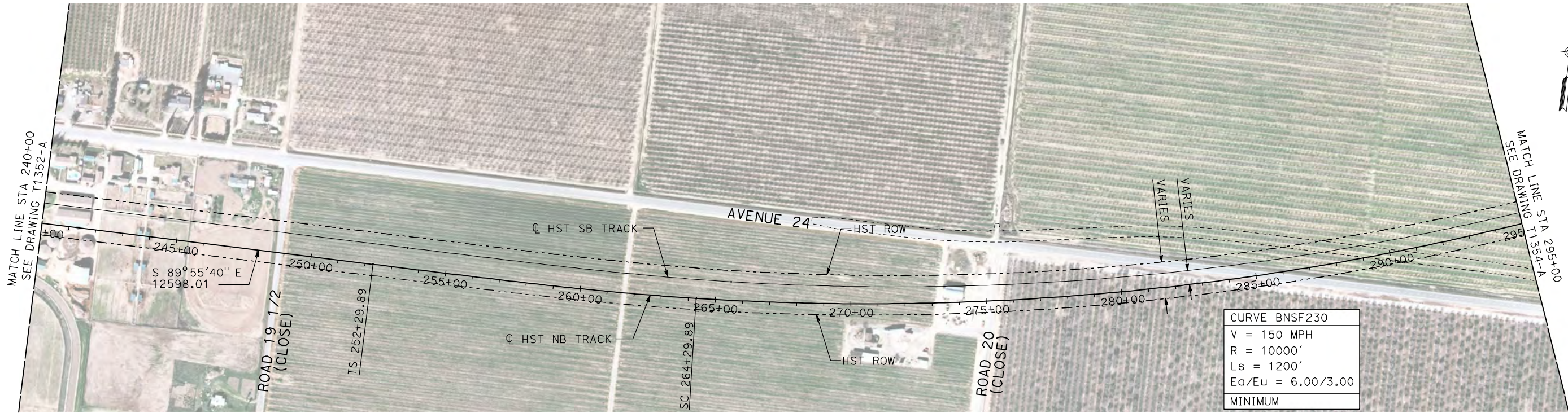
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 185+00 TO STA 240+00

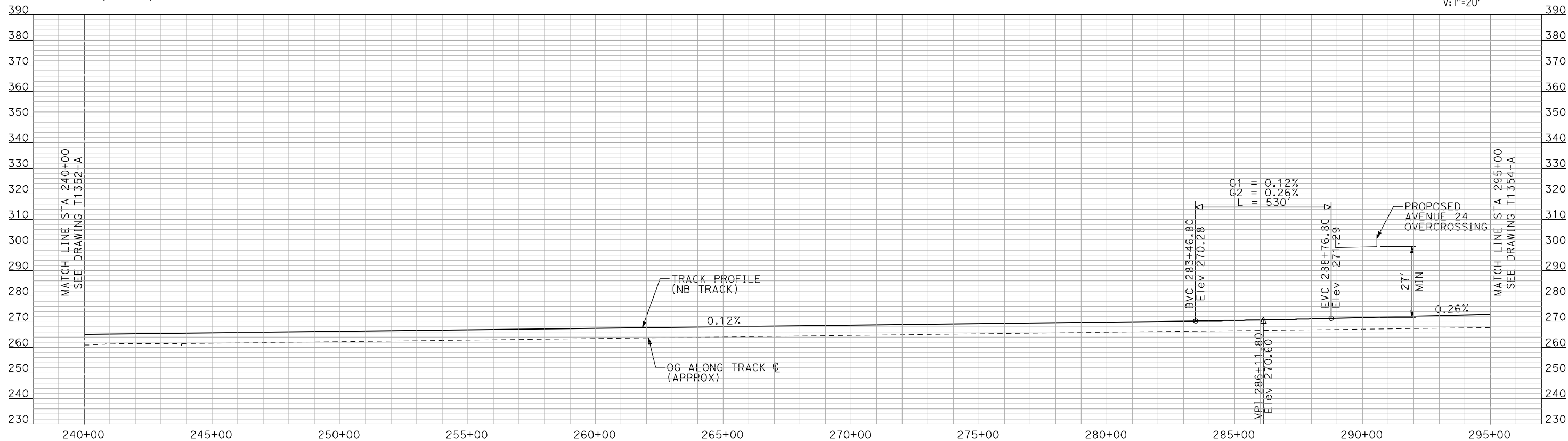
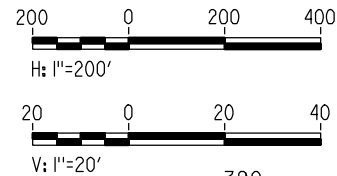
CONTRACT NO.	HSR06-007
DRAWING NO.	T1352-A
SCALE	AS SHOWN
SHEET NO.	### OF ###

7/21/2011 12:22:52 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF_AVE 24\MF-T-1353-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

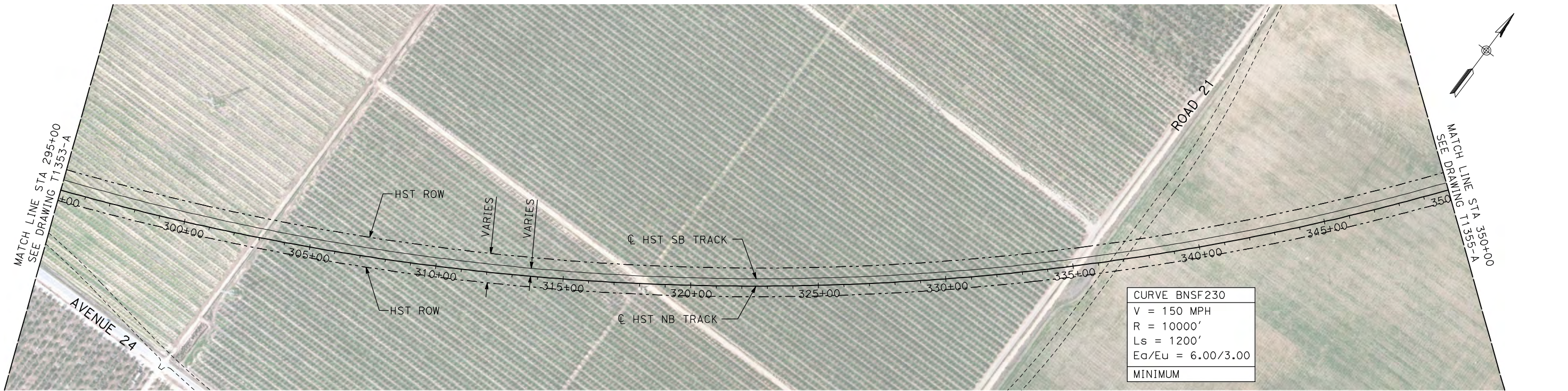


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 240+00 TO STA 295+00

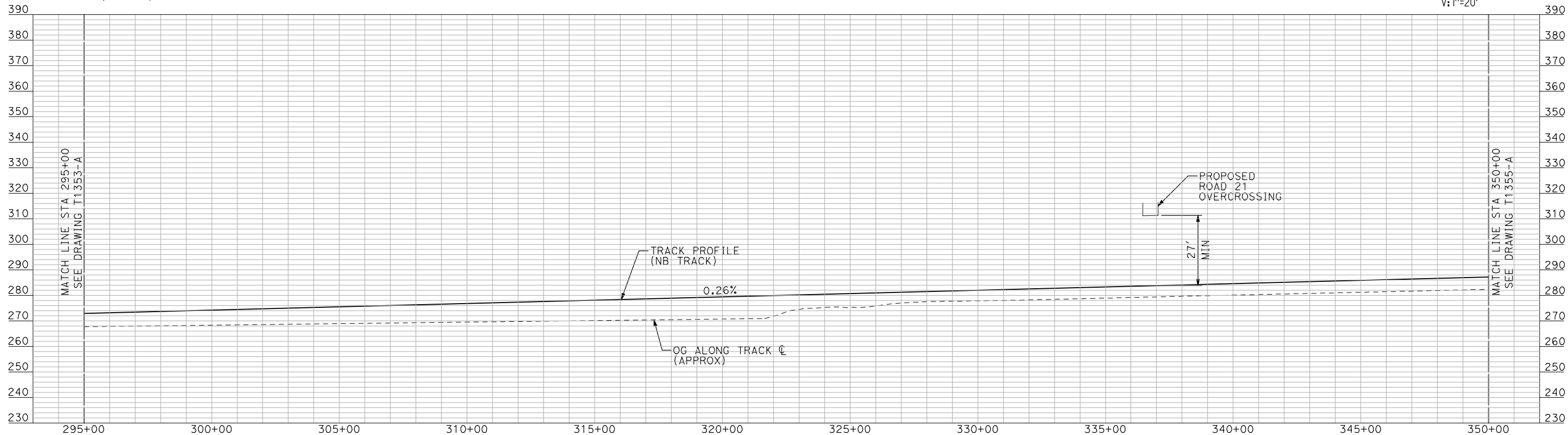
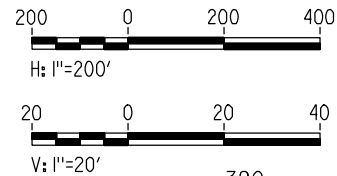
CONTRACT NO. HSR06-007
DRAWING NO. T1353-A
SCALE AS SHOWN
SHEET NO. ### OF ###

7/21/2011 12:23:24 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF_AVE 24\MF-T-1354-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL



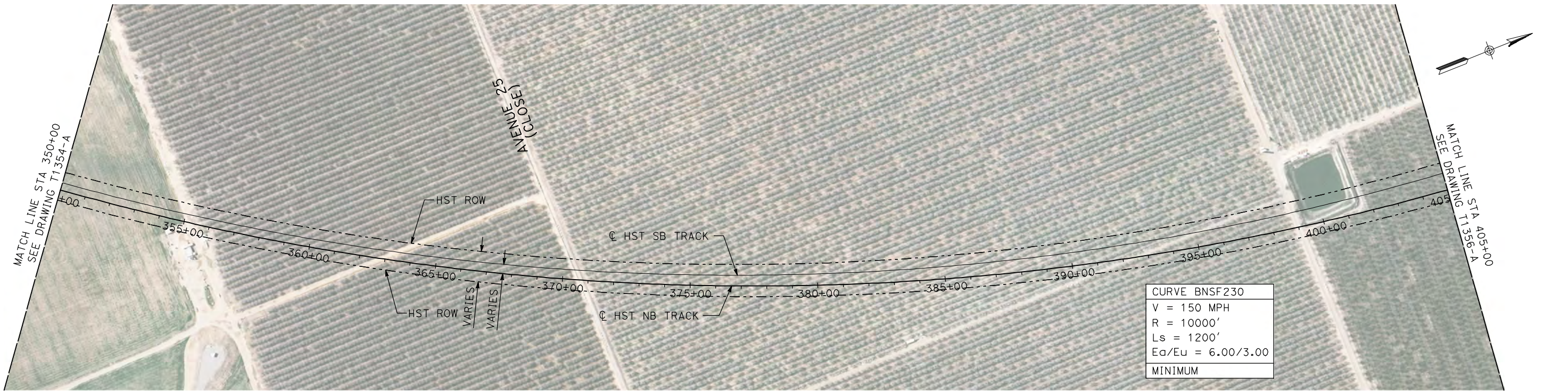
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 295+00 TO STA 350+00

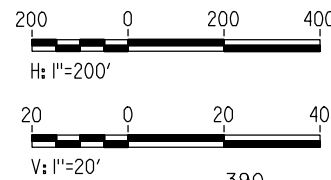
CONTRACT NO. HSR06-007
DRAWING NO. T1354-A
SCALE AS SHOWN
SHEET NO. ### OF ###

7/21/2011 12:23:54 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\bnsf_ave_24\WF-T-1355-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

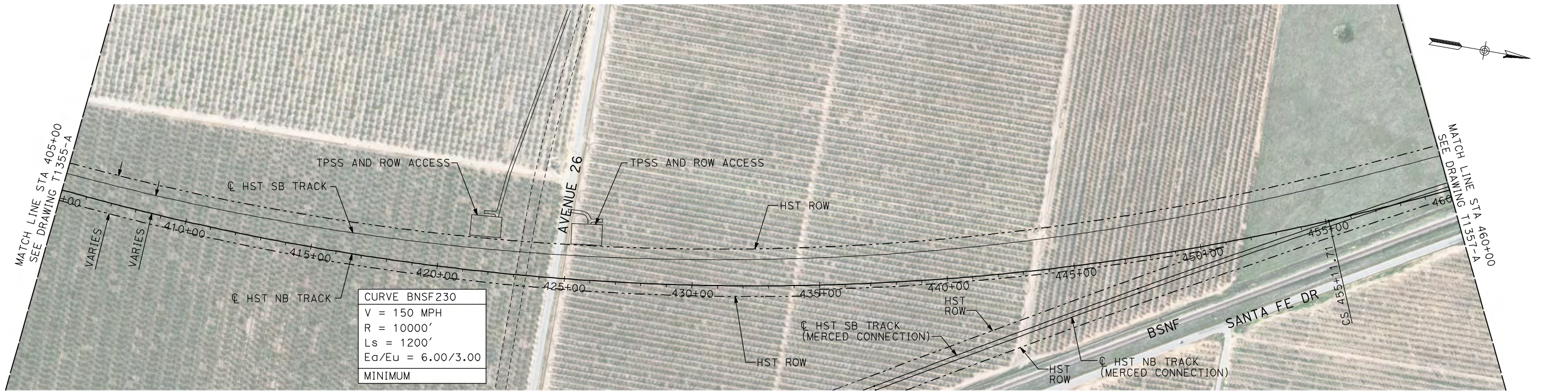
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 350+00 TO STA 405+00

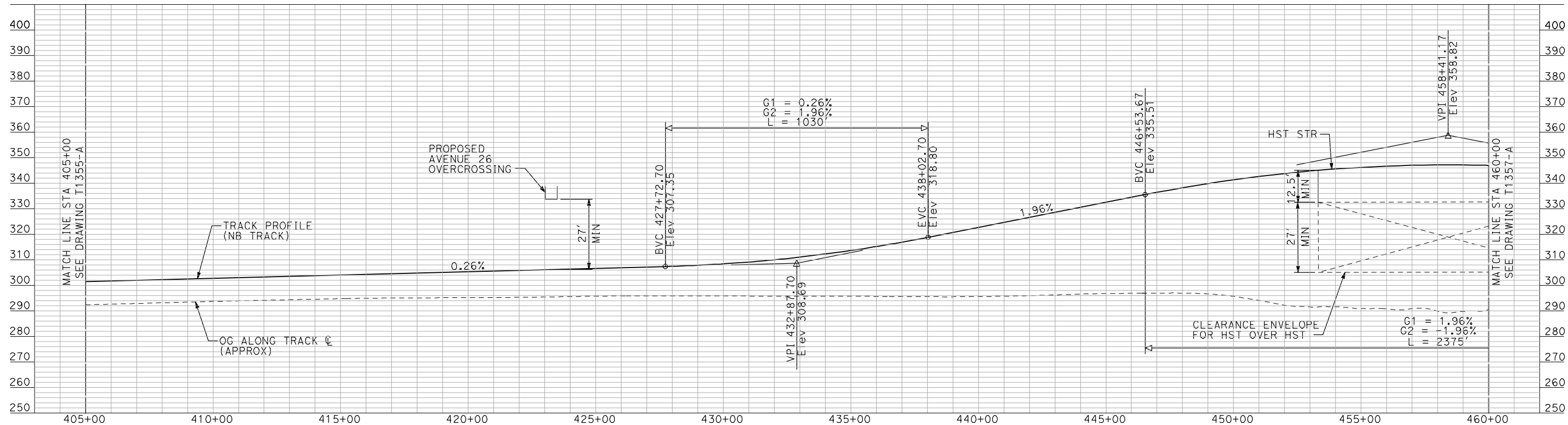
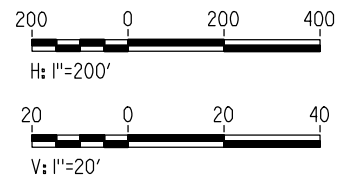
CONTRACT NO.
HSR06-007
DRAWING NO.
T1355-A
SCALE
AS SHOWN
SHEET NO.
OF

7/21/2011 12:24:23 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF_AVE 24\MF-T-1356-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL

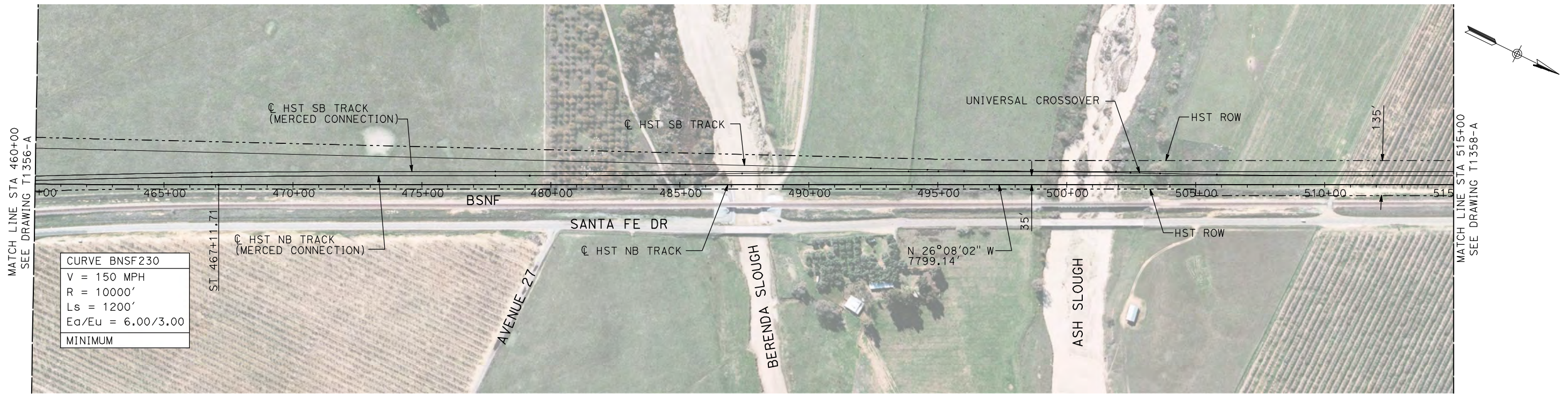


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 405+00 TO STA 460+00

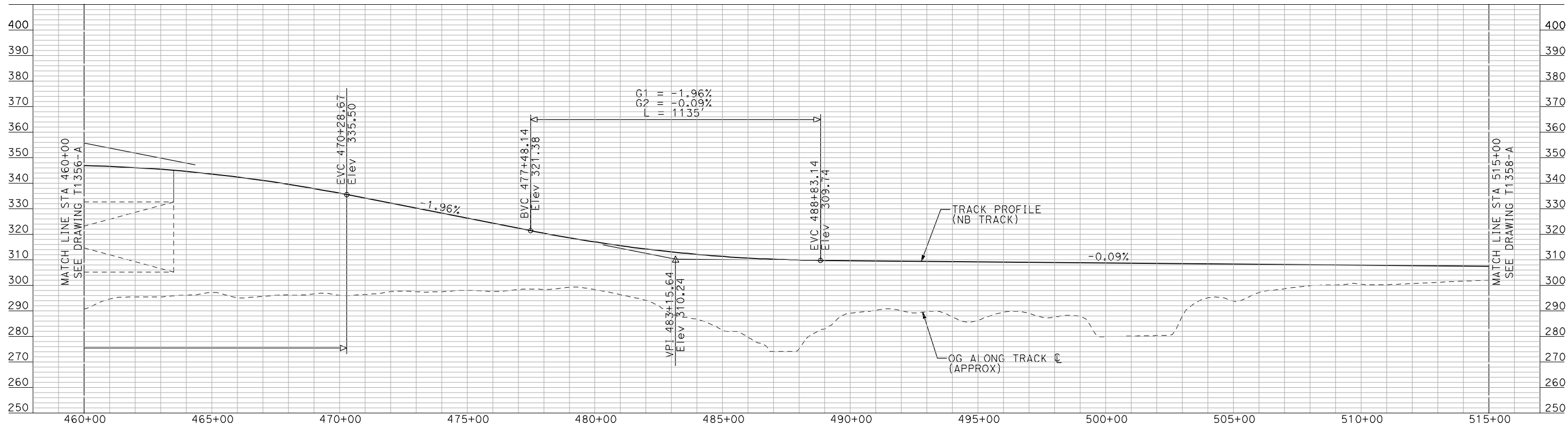
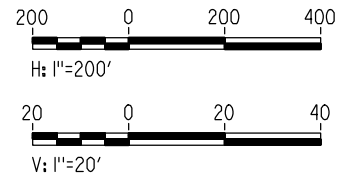
CONTRACT NO.
HSR06-007
DRAWING NO.
T1356-A
SCALE
AS SHOWN
SHEET NO.
OF

7/21/2011 12:24:53 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF_AVE 24\MF-T-1357-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL

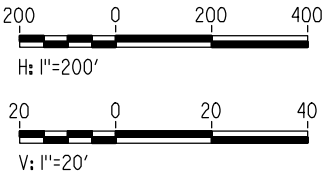


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 460+00 TO STA 515+00

CONTRACT NO. HSR06-007
DRAWING NO. T1357-A
SCALE AS SHOWN
SHEET NO. ### OF ###

7/21/2011 12:25:24 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF_AVE 24\MF-T-1358-A.dgn machadoe



"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

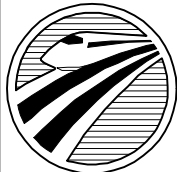
DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF WYE - NB CONNECTION

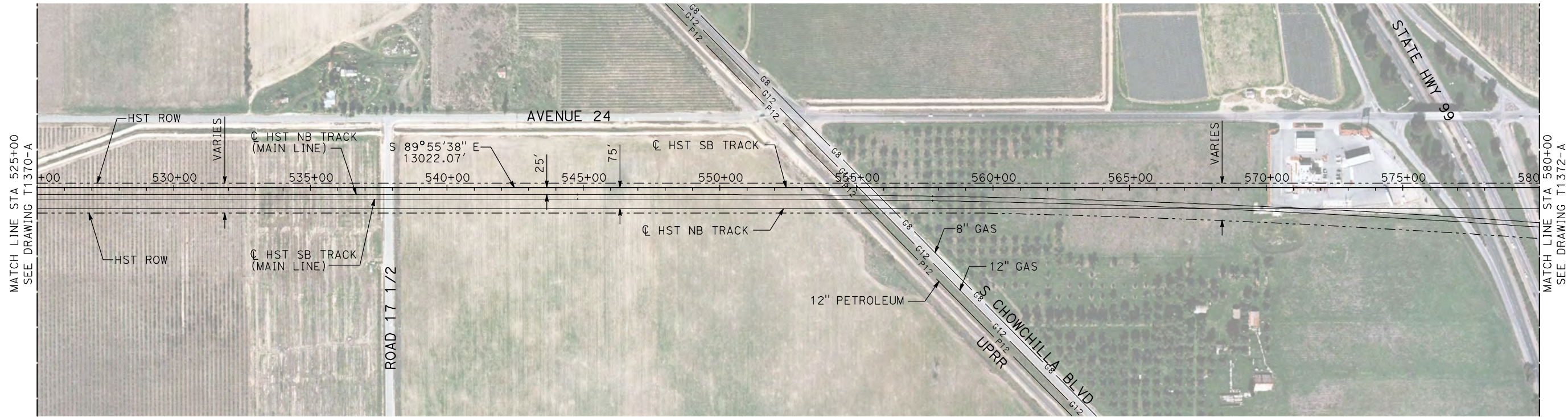
AVENUE 24

PLAN AND PROFILE

STA 515+00 TO STA 566+78.51

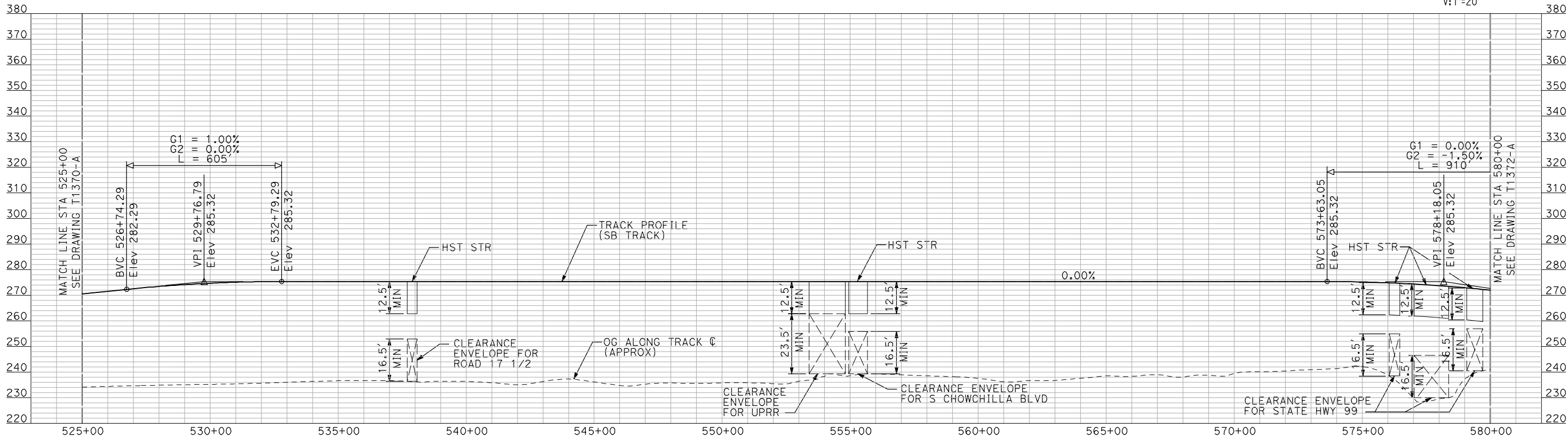
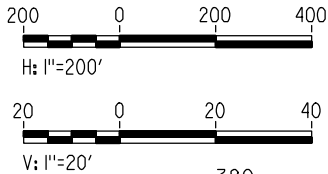
CONTRACT NO. HSR06-007
DRAWING NO. T1358-A
SCALE AS SHOWN
SHEET NO. ### OF ###

7/21/2011 12:26:23 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF_AVE 24\MF-T-1371-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

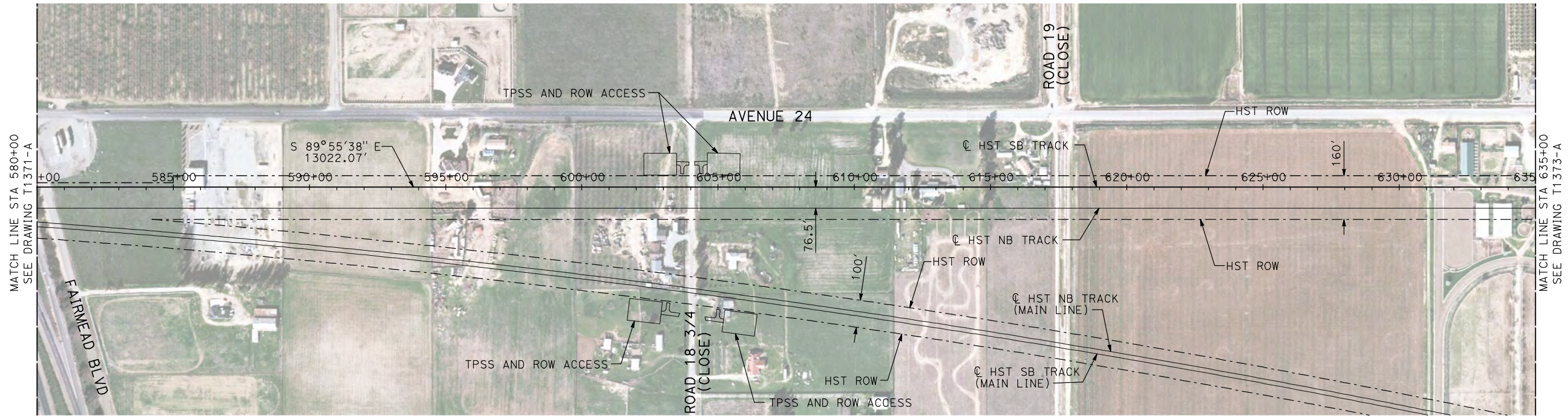


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 525+00 TO STA 580+00

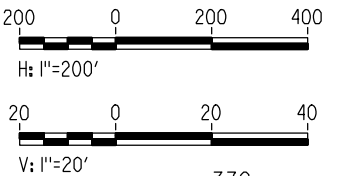
CONTRACT NO. HSR06-007
DRAWING NO. T1371-A
SCALE AS SHOWN
SHEET NO. ### OF ###

7/21/2011 12:26:51 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF_AVE 24\MF-T-1372-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

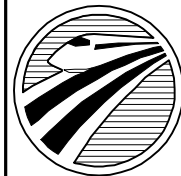
"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

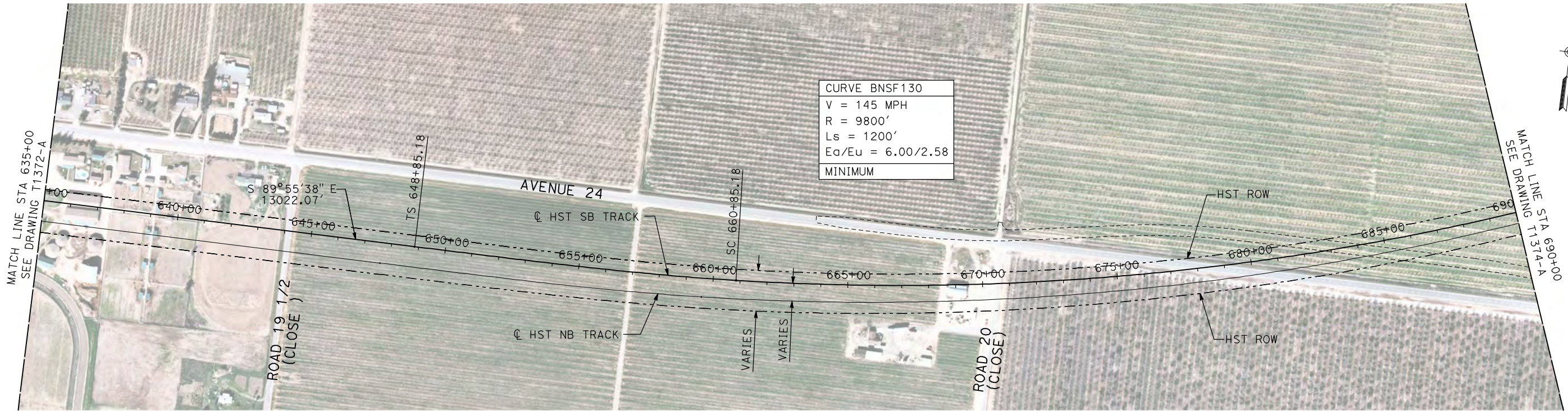


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
BNSF WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 580+00 TO STA 635+00

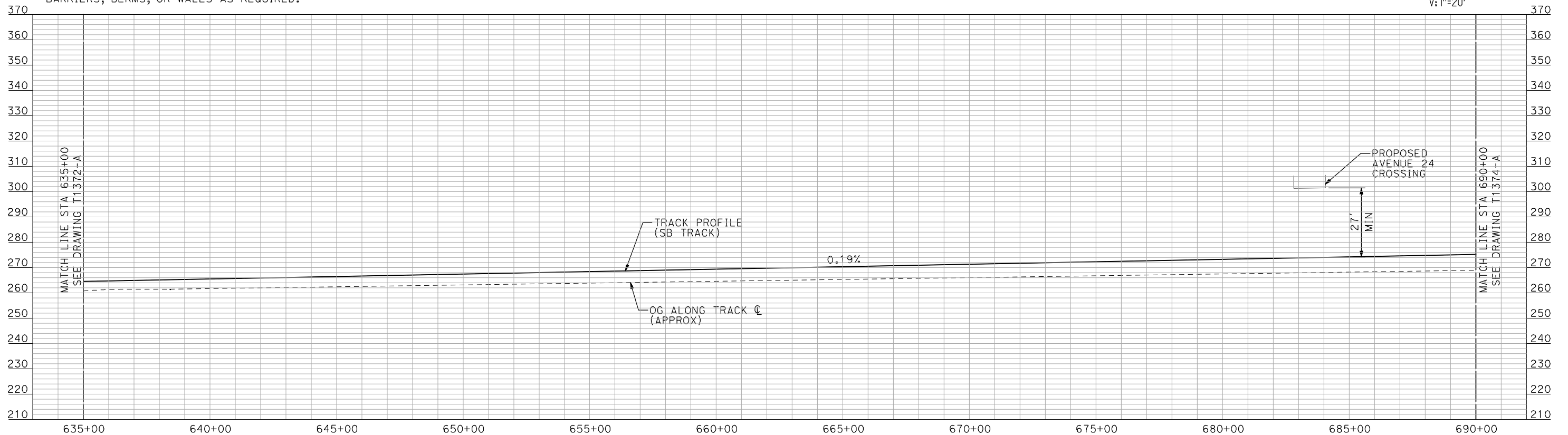
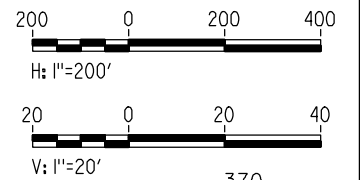
CONTRACT NO. HSR06-007
DRAWING NO. T1372-A
SCALE AS SHOWN
SHEET NO. ### OF ###

7/21/2011 12:21:21 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF AVE 24\MF-T-1373-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

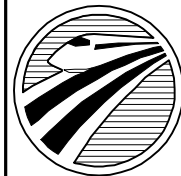
"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

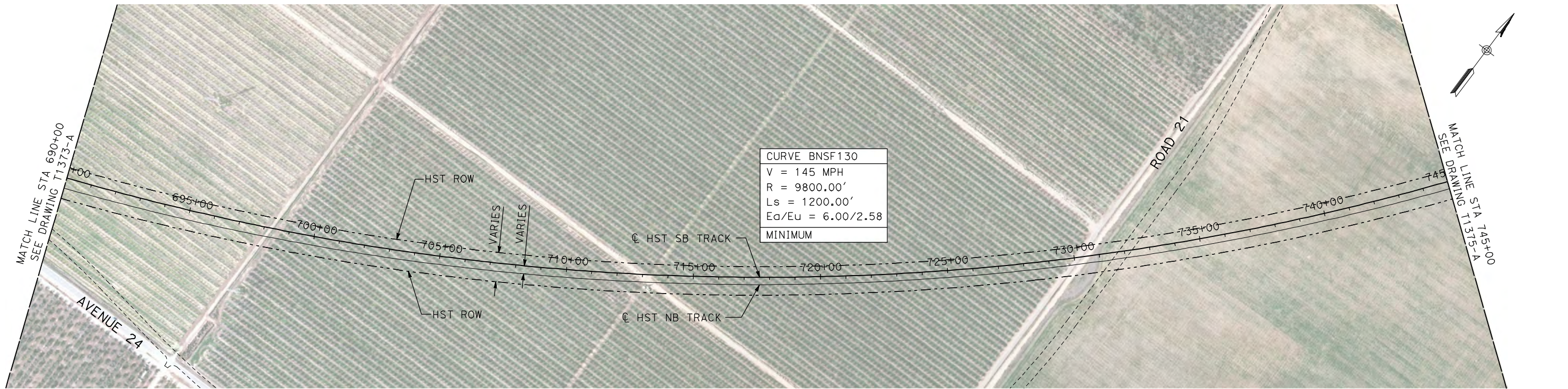


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 635+00 TO STA 690+00

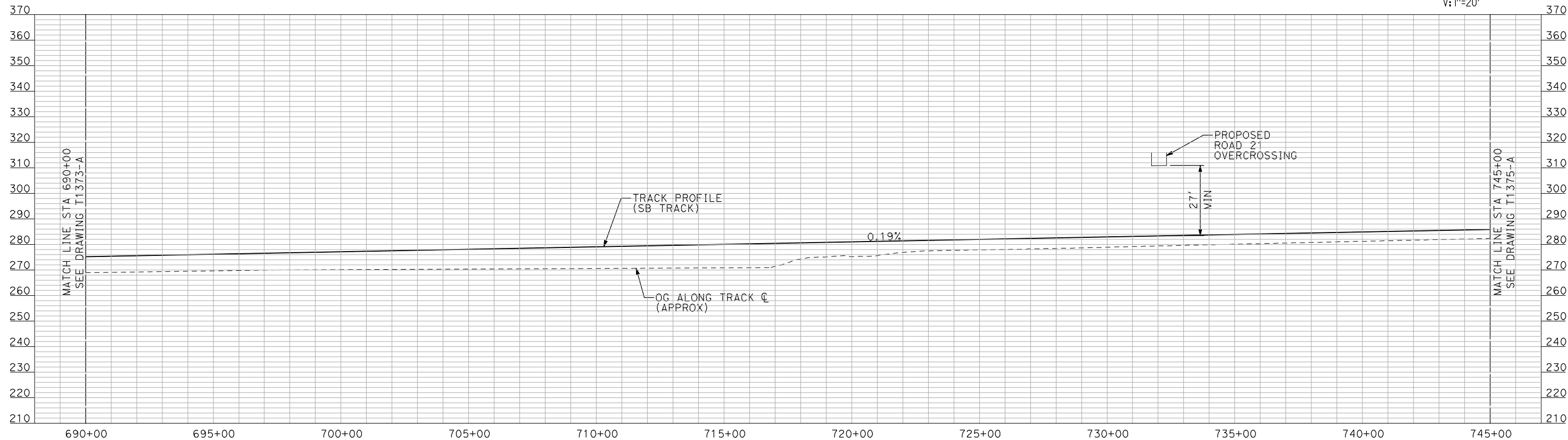
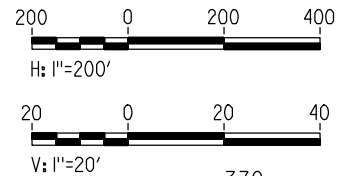
CONTRACT NO. HSR06-007
DRAWING NO. T1373-A
SCALE AS SHOWN
SHEET NO. ### OF ###

7/21/2011 12:21:52 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF AVE 24\WF-T-1374-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL

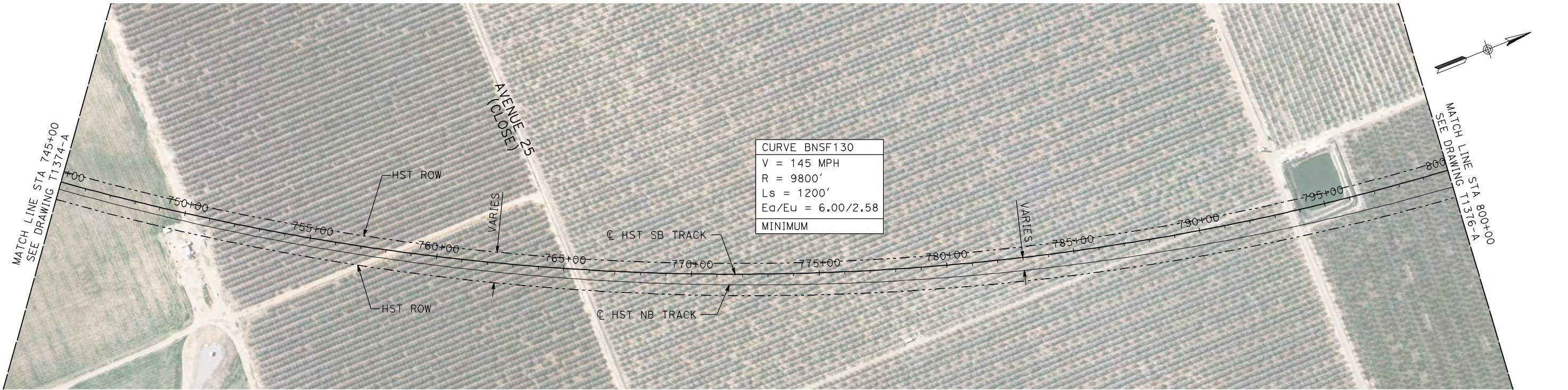


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

BNSF WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 690+00 TO STA 745+00

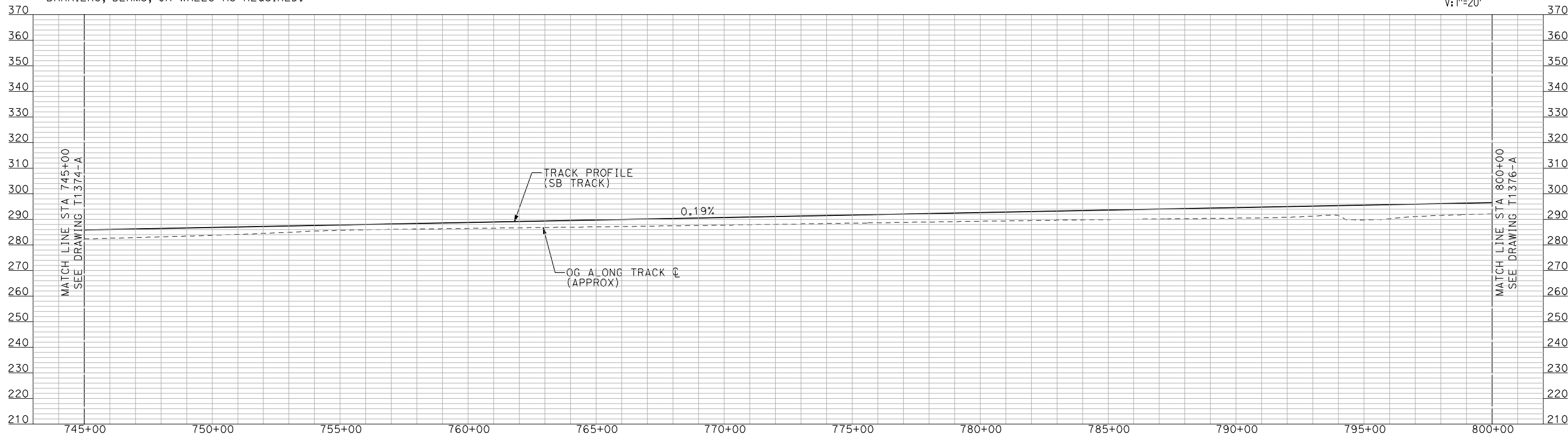
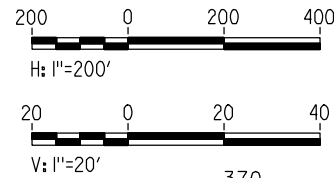
CONTRACT NO. HSR06-007
DRAWING NO. T1374-A
SCALE AS SHOWN
SHEET NO. ### OF ###

7/21/2011 12:28:23 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF_AVE 24\MF-T-1375-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

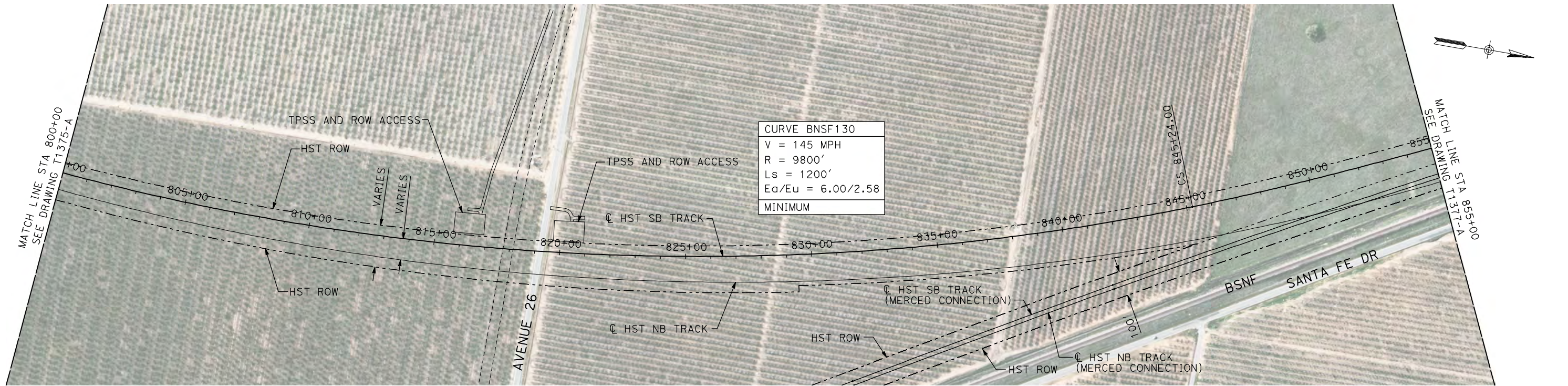
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
BNSF WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 745+00 TO STA 800+00

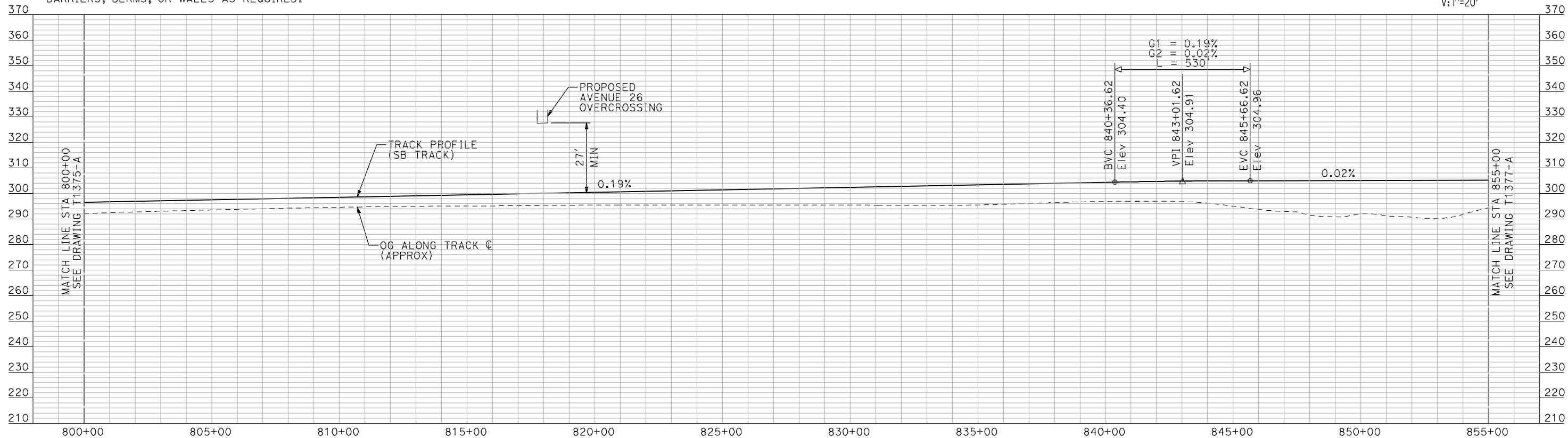
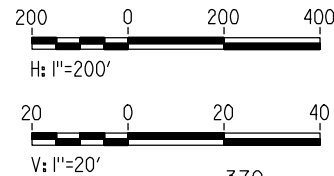
CONTRACT NO.
HSR06-007
DRAWING NO.
T1375-A
SCALE
AS SHOWN
SHEET NO.
OF

7/21/2011 12:28:53 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF_AVE 24\MF-T-1376-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

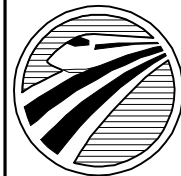
"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



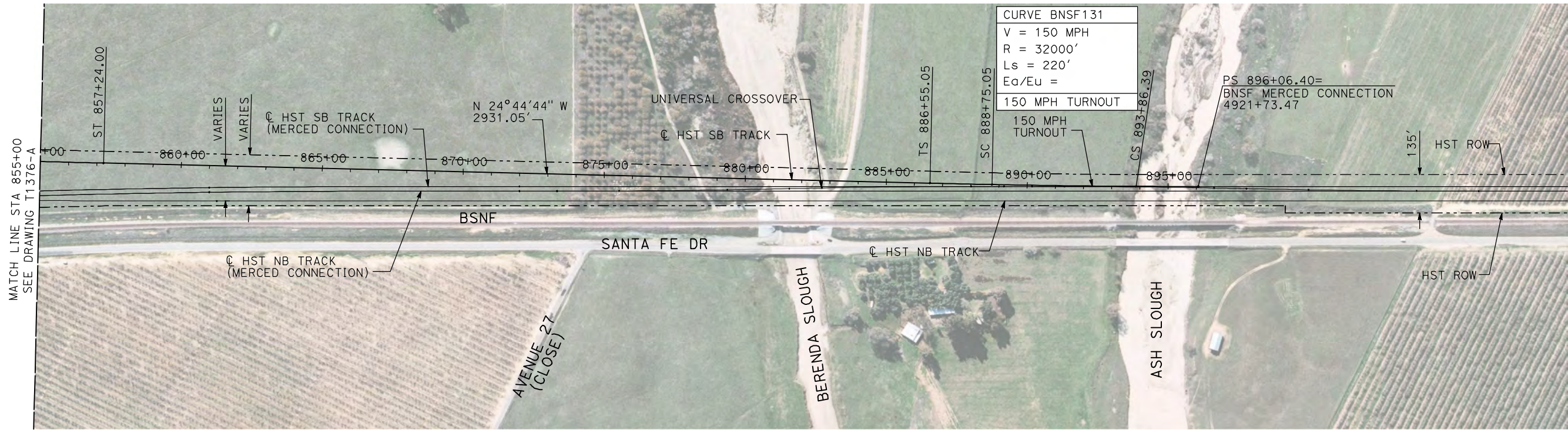
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 800+00 TO STA 855+00

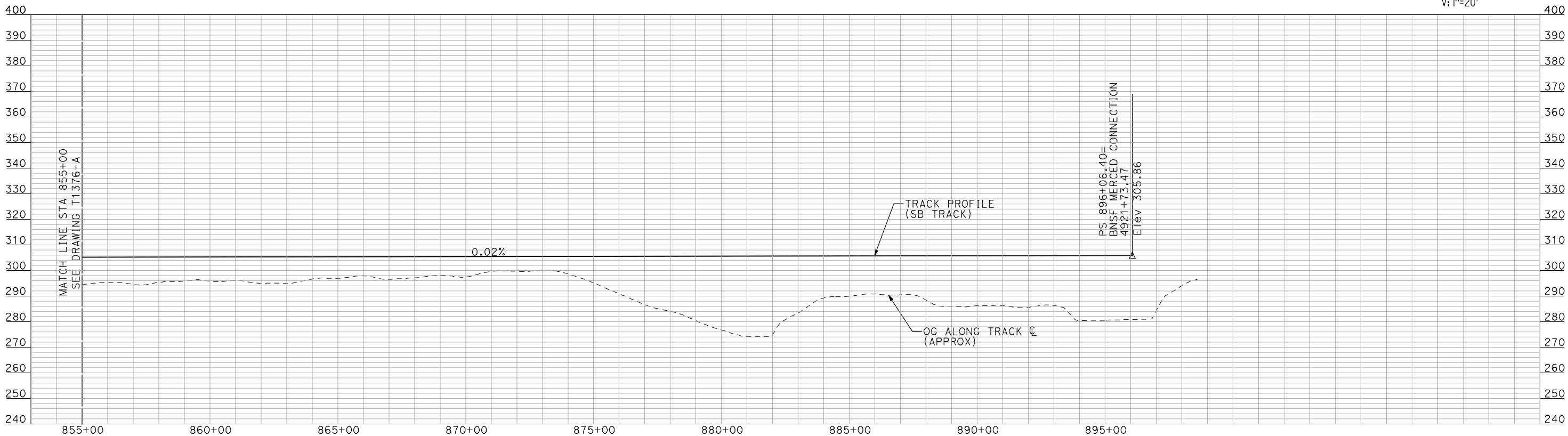
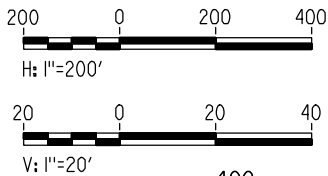
CONTRACT NO. HSR06-007
DRAWING NO. T1376-A
SCALE AS SHOWN
SHEET NO. ### OF ###

7/21/2011 12:29:24 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\trackwork\deir\BNSF_AVE 24\MF-T-1377-A.dgn machadoe



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. SHIELDS
DRAWN BY H. SULLIVAN
CHECKED BY A. BOONE
IN CHARGE A. BOONE
DATE 07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

BNSF WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 855+00 TO STA 896+06.40

CONTRACT NO. HSR06-007
DRAWING NO. T1377-A
SCALE AS SHOWN
SHEET NO. ### OF ###